APPENDIX B: AMINO ACID SEQUENCES

> aaRXA00003 (1-741, translated) 247 residues
VQVRILSSEL VCSLSGAIRG VNLDIAAPKP KKSGRRTLTK PEWDAVIKHL LTRDTEPLLT
PTKHKNIRQS TKNIHARIVR LTLLQAVSGL RIAEANQLQW KHIIDGDDGM LINASADIVK
GRKGKERGRY IPILRADVAE YLRTHREDDE HFIVGSPTTT ARPWDATNAD DKVPELYRQI
AEATGVKTLQ DLRSHSWRAT LHGVYADVMD PATRAAIFGH TEQVAEEYYN DRQNIESLMR
QVKRAYA

> aaRXA00008 (1-492, translated) 164 residues
MAKKKKKVDE NNSVLATNRK ARHDYHIIDT WEAGVVLLGT EIKSLREGKV SLVDSFATID
NGEIWLQHLH IPQYSMGSWT NHTPKRTRKL LLHRNEIDSL MGKVRDGNRT LVPLKLYLKN
GRVKLELGLA QGKQDYDKRQ DIKRRTEERE VTRELGRRIK GINA

> aaRXA00015 (1-309, translated) 103 residues
MIDMCTTPRQ EIMIREQFKE INNGRVVPHY DQLEQLAEIF STKDSIDMVN EILNRDTDFL
SNEGTIFMEY IFNGGFHTDN GYQPLSYAYV ERGLAIRPPR IVL

> aaRXA00018 (1-1299, translated) 433 residues
MSALSRPHKI ATGVAVATLT LTLCTSAAGV VHAAQQSISG PESSCAFNQQ RWDDSKVKLD
DTIATAKNSL VQTGELHRNE QDLLTGYLFQ QPHSSNYLAL NNAYADAVAI KDSFVRPTCD
GSKESKIASE HAVSEVVGAV NVLARAQKAL QINSDTYEQQ RRCDALRLAS RDESDVLMRI
DRTMLQLRRT LADIDQASTD IRDIRAQTTS FERDLAREQK EADAAARAQA VDTSTTPTSS
TEDRVNDILK ESRTDHSGDS YTRSTTTSAQ STEPDSATNT SYLSRRLDSL ERSAQHIDLN
TQCDNLDDLR ELTNNDTRDH TGSVISIADQ LTDITNEINE LRDSTFATRD SAQQAQDQVI
AQREELQRAK EARLEEQRLA KEAEEGARNA AIQERDAAEA ALREAQDLLS RLDDTGNATS
DDTAALVDGL LNN

> aaRXA00020 (1-780, translated) 260 residues
MTVTTAQRIA DEFQRGISIG PWDLCEVPAG DDYLEHTTKV RRRHSTAVEI HTDSLIICAP
EGSTYSHNRT KAGLASTGTV TVPVKGLSEP VKLSLNLLAD YGNSFDTVHD DLWQRELREQ
TRGQLLTLNA VSGLGDDSVA IMGTPWGDGL TGEANTIKGR EHFVMWAAGC RFEDGYGRHA
LREDRHVRHQ ARAGEDSTAH HGWLLKGTVF GKELTGDAVT AAMTVFSDVV VTVDEGRIPG
MKSGQPFSMA TRLRASSAPV

> aaRXA00021 (1-1773, translated) 591 residues
MSDTTDSHDP ATSPTVDSAA SGTSDPNQQP KKKFTIIKQV NMIARTAIDD CINRLGPDVV
TMSSEDIADQ VVNSINVAIA RENTRAQDAN AAVRYTPIFK LDFSHVAVLM RRLHVIINIA
PSHNSDPDSD MLAIYDPNPR SEHYGIYRTS EAEIRRVARE YCPDLTSAQF RELQMALSDA
APRKVRHKQR DLIPVKNGIF NYSTKQLEPF SQEFVFLAKS AVNYNPNAQN PVITHPQDGS
VWDVESWMND LSDDPEVVNL LWEIIGAIVR PYVSWNKSAW FYSEAGNNGK GTLVELMRNI
LGAEAYTSIQ LSDFSKEFHL ESLTRAQAIL VDENDVGAFL EKSANLKAIV TNDVISINRK
HKTMLSYQFY GFMVQCINGF PKVKDQSESF FRRQLFVPFE KSFTGAERKY IKDDYMSRTD
VLEYVLHRVL HMNYDNLSTP AAALAVLDEY KEFVDPVRAF WNEFSDQFVW DLLPLQFLYE
FYRKWFDRDS PSGSVLGKRS FIQKITTIAV DSGQWEYPLT AQRPGGDMAV PEPLVIDYDL
TEWQNATVPK GHVNKGLPLP LKANYRGLLR KPLTTPATPP AAPVNPTPPT P

> aaRXA00022 (1-735, translated) 245 residues
MSAPTIYPGT KTSIDPITMD DARIIFFDIE SLHNIFTVAT YDSLSHHVDV FYLLDHTTSP
QITVLPHSMD YFDQTRSDAV MAAIIEQNPA FAEIKGSPIT TADVALHNLG DTNANRRWQS
NVLLARLLGG ISVRGEVPEH QSHNHLAKQF AEATLVTRDF DVNYDPTSAH PFTAGFNSIN
YDTTLLSLYF AMLTSNIGST PTYFPVITAQ ELRAHNDKLF SPEFIKNMPK YFWDRDSGAG
LRAAS

> aaRXA00025 (1-1437, translated) 479 residues
MAWMNVSVIV PGSDEELFVK GLFTGEGLTW LTTNLGANYI GFPPLLTVLP ILLAVGVAER
SGMLAALIRK LFGSAKKIVL PYAVGVIGVT ASIMADAAFV VVPPLAAMVF KAAGRHPVAG
LLGSFAAVGA GYSTAIVPTS LDALFAGITN AVMETLPGIA TTEVNPVSNY YFNIASSIVL
GLLCGFLIDK VLEPRMWRQK IATEYAESIE PTSAADDEEI SATLTAQENR ALTISMWTTL
ATAIIVLVVV LIPGSPWRNE DGGFLPTSPL LSSVVFIVFL FFMVMGLAYG MVVGTIKNMD
DVVNMMGEAI KDMIGFLVLA FILGQFVALF NWTGIGTWTA VQGAAGLEAI GLTGFPAIIA

FIILASCLNL LIISGSAMWT LMAAVFVPMF ALLGYEPSFI QAAFRVGDSA TQVITPLNPY
MIVILGLLRR YEPDAGLGTL MSRLIPFVIP FWLAWATLLA IWFYADLPLG PGSAIFLEG

> aaRXA00027 (1-366, translated) 122 residues
VDERSRFARS VFPDGEEPDP RFTLANERTF LAWTRTSLAF LAGGIAFEAF QISGLSDTVR
TTIAVFIIAV GMIIAAGAAV RWMNVERAMR KQKPLPVPAI IPFLSIAALV ASAAVLVLII
VQ

> aaRXA00028 (1-1947, translated) 649 residues
MTLTASSLEA GKMSFSGGYI VGETMIFLVD PDEVEIRRSP NSLHVLRNGS DILRRNEHHC
WVFENFNKPI DPPVRLGPRD IICPSALAWV LQQHSISRSL SHHLHADKIT AGEIAGRPTW
ILREEPTSGG QDPSRLVSLE IDQEHGVILA VETGQERLEA TEISFPDTLP NPSWDGAWEP
FHYPDSTPHT APDVAEIPGY IQSLPPQSED PRRLRVFVNE IALEGDFPDY RQGQSVRLTL
GISSSPVPLE GMTTRRRGRV RNLGEEASPG DDGMPQWPIL LTGDGWTALA YTPIPKRGDA
EIQGWFYYSA YGIVDVPTDL RVERIFAGIG TSGTNERLWQ EIDNTSSAYH SEDWWIRDVV
LDVTLDGAVP PPLRRDVFTA VDPIVAGDKL WLCDVHFPVA RCWETTTGRY LGQTLXPAPL
RDRSYVLELH SDQQLGAVAA SGKSGWILTP GQAVATKAPD WTPPTRATDL PQVPSPWEIV
AVRGQGLFEL QVETSRRTAL GRVNATGGVD IGELPPNGYT ISSVVQIGDE YIVGRWVEEY
RLNSKLEVIS TKELDISASG WKSKGTVAYL SEDTHICFFD QVSGAELPSL GIAEGHQGEV
MSATSSESIV LIYRRNPNNS MSIVPTSVAT YDNGTWTTMP LQEAPAELS

> aaRXA00031 (1-402, translated) 134 residues
VAAGQWLAGN IGEIDHVLCS DATRTQLTWE RVQLGGATAK GSSFHNDIYE NQVSEFKHLI
TGLPDVVGTA LLIGHWPGVE ELAHYFGIRD EHPGWDQMEE KFPTSAIAVL EFNTPWSKLE
RNSARLTDFV IPRG

> aaRXA00036 (1-1416, translated) 472 residues
MLERTQVFVD TSYLLASFYN SWETGARAQL EIDLPEVVGV LGRMIEQQLK QPVQRQMWYD
GIPDSGPHRY QRALRTCDGV QLRAGQLIEW GERRTQKAVD TRLVADLVLA GVRGQCSDIV
LVSGDADMIP GVQEAANAGL RVHLYGFGWD SMSSQLRHCC DTTTILDPRE DFAECMQLQV
LEGPLPPVVR VKPINDAEPI EDLDFTPVPG VASPFEEVSA KDEKFSPRPS EPAEALSEQV
CEAQYEISKH EGQTADSGEI TESFEAAEIK VTEFFGEPAA PVAESGVEAP TPEAPTVPEA
AKPTPAKPKT PKAEPQKQES PKPGTPKPKA PSPADIPPKA PADTEEHSEV EAEIEDSRPK
IPSPSMMAPR RKLRSRYVPL PNEVWATAGF QTPYDVGQQY ASWWFENAAT STQRDQAHLL
SGGGLPPEID RPLLQFACET LHEYTLTEAQ RVALRDGFHS GIRGVLLNQR DS

> aaRXA00037 (1-873, translated) 291 residues
MANPLSKGWK YLMASFDNKI DENADPKIQI QQATEAAQKQ HQQIMQHASQ IIGQQKQLEM
KLNRLVTDRD KLQEQARQAI QLADKSANEG DSVKAQEFNN TAEVFASQLV AVEQQLEQTT
ALHQQAEVAA KDAVAKSKES EMRLKEQMSQ IDALRAQADQ AKMQESVTKS MDSLNQFGTQ
DSSVPTLDAV REKIERRYAD ALGAQELTQN TVSDRMAEIA QSGTDMRASA RLAELRAEAL
GTSATPKGQL EAGVEDAEEL IDETSTPSAT PETASPEADA PEASADESEK K

> aaRXA00049 (1-687, translated) 229 residues
MPTPSQHKDA STAQTDNQVP TGRRAQKREQ TRARLITSAR TLMAERGVDN VGIAEITEGA
NIGTGTFYNY FPDREQLLQA VAEDAFESVG IALDQVLTKL DDPAEVFAGS LRHLVRHSLE
DRIWGGFFIQ MGAAHPVLMR ILGPRARRDL LHGLETGRFT IEDLDLATTC TFGSLIAAIQ
MALSADQDSN DDKDQIFAAA MLRMVGVQAA EAREIASRPL PEISPVKPQ

> aaRXA00052 (1-711, translated) 237 residues
VAFILFNFVK TNDETSNVSQ SESTAETVSE TNGVLSDGAE NIASQSDESK SGVEIIDSGF
GQSSNSAMAI VIAKTSGGSL AGEFVTATVN FLDESGAVVA TEDQVETLSW EDQELVLPVS
HYKEDSSRPE ITSIEAFLSV TDYGSGQPDE TALPVLETTD ISNPYAGSYN ASFALKNDSS
DDFKNLRVGI VCYNEQTDII GGGFKFPNLV PAGGSIRMDA SVTVSEMPAS CKAYLNH

> aaRXA00054 (1-2913, translated) 971 residues
MSPFDSKLGR DTHFGFLDKT TASQQLLNPS LISNEDPHTM LQAIKLELRT AQSFTFSVAF
ISSRGIALLK QALLDFKGKG RIITSRYLDF NDPTMFRELL TLENVEVLIH QGDGFHSKGY
VFHHDVGITA VVGSSNLTDN ALLVNREWNL KFSASKNGDI AFQLDDAINR QIERSTPLTP
EWISEYEATR RVPERLVSQN IPLEDQSNAG TIVPNVMQEE ALDALLSLTE KGEKRGVIIS
ATGTGKTILA ALATRMLKPE RVLFVVHREQ ILDKARSEFI KVLERPAVDF GKMSGSTKEL

DKPFVFGTIQ TLTKEATLSQ ISPTDFDLVI VDEVHRAGAE SYLALLNHLQ PQFLLGLTAT
PERTDGFNIY ELFDFNVPYE IRLQAALESN MLVPFHYYGV TDFTLDSETT VTDTSKLSAL
VSEERVHHIL EALKTYGHPE NVRGLIFCSK TEEAEELSKL LDQSLFNGSL LKTKALSAKD
SIPYREEVVA ELESGDLDYI LTVDIFNEGI DIPSVNQIVM IRSTQSSIVF TQQLGRGLRK
AAGKDHLRVI DFIGNYANNY LIPIALFGDN SRNKNSIRRR LIESDIDGTI SGVSSVNFDP
IAQERIFAAL KAAKLDSKAQ FKQDIVQLQD RLNHVPALLD FARFNTVDPF ILATHSGNYW
SLLSSVKFVD HAPSESEKYF LDFLTGELLN GKRPHELLLI QELMKQPETS TEEFRKLLQA
QSTSSDEQTI NSVERILSQE FYTGPNRKKF GEHPILSVQN RTYSFTPEFR RALDESLEVT
DRDEAAQNFK FHVQDIIDTG LFIARNNGFW QGNLVVGERY SRRDVCRILN WERNNESTIY
GYKVDSYTST CPIFVTYHKA DDVSESTRYQ DELVDPNTLH WYSRGNRKIT SNEIKPIAAN
AVDLHVFVKK DDAEGLDFFY LGQAHSENSK QSSMPGNKGV VQPVVTMDLQ FDTPVEQSLF
EYLSTNLAVT E

> aaRXA00056 (1-750, translated) 250 residues
LLNRVSRIAG ASAITLCIGL TTILSPTSTA QSLEQITPLP ESAIDLNAEI HVNTSDISAE
QILGAQDEIT TMYDSHDPYE YFDTLTDIEQ RSIIAALKRD PSSLQQRQET RLAAQSDPYK
IYISGLEMLS CINLVDVVSC GIANQAATKA NNEAVARYPG DSLRNGKGDA FRHCSWNALM
TIRIGSNGAE RIATNHETIG DGPADENAMD LFNNAQGRQI GAGFINSKDE TSALAICALW
TNLGRLKTLK

> aaRXA00058 (1-564, translated) 188 residues
MKFFGFYRPI ALIAGITVSA SILTSVATAA ESPTSFQAIT PAFSSSSAPE ADAEANTSEA
TADLLYVAEN QLLIKLSNAV VEDVNGEILM KDNKGTLLEN LTAELQAQPG FSIEKVDSHT
ALLTMNPDEV PDLQDWRCGV GALSGGVAGV VATGLALAAL GVATGGTGFA VLAAGGLAGY
GTGAVANC

> aaRXA00059 (1-282, translated) 94 residues
VLTGILLAMV STALRIRFGS GVAIAATVLW TVISITLGGD VLAETMLWLV AVPSWPETAD
TTTRFLIAML LQAVLITGST IWAIREIRDS ERRG

> aaRXA00063 (1-285, translated) 95 residues
MTDGDLDADI SPRQIGLMTT RTVVEIVRLR HMIAQQLERA TIMENEYLKE IAALKKELAH
YKQKDHQNQM VIDILGKAIG TRPNPGEGLD EEDAT

> aaRXA00065 (1-273, translated) 91 residues
MANLPQEGFS VVHGILADPR IWGPEIPYVR EEAGQVNVEA PDEAGDLARL TLPLQLILLT
EEEFAIALNE GSDVMFERMA EQEVDLLDLK R

> aaRXA00067 (1-486, translated) 162 residues
MVDAQRPKAG IFGSHTEETW VWLGNELFDE SGEVIADVRS DVLYVDRERL LIESTPGTMR
FRCRATLSGG EVYTMTQNSF TVGDLTAVCG RRTYSLKRVS PWRKERLITN NGVEVARLRP
MTSGKVEFIV GTAGSEALPF VDAVFLSWAC VLVDSAVRRP KI

> aaRXA00068 (1-582, translated) 194 residues
MTSKDLIVTS YTSWGKRFKN DGKLFINLLR STTDSADEKV LATFGEVPSK SFETTATVDE
QQWELSFSID GTATAKLPDG RVFSANAGEK TFTKSKRIEI DMDGTAMAAV NEDKNNWIID
DSEENKVAQF TGMNNGVRRA IVEFEPDVEV TQEQEIFLSW VARKTLESRM LGSSWGLTLF
LIILTPIIIF LTFS

> aaRXA00071 (1-1452, translated) 484 residues
MSITTHVQAL TTALNAIDNH LASMXDHGVT PDQYKAIEPD LIALEHTINH HATIAAQTXA
LAERTXXXXX IGSTHLIDYL TTTFGLSKAR AHHRINLAHS LYPIPKPNSG SGNGGNGGNP
DGGPDGGDSG DDDSGDDDPD PEPDKPEDGK PDSDKPRRPR ISAEKHAIIT DELARLNPNT
TPSAEEXRXQ ALSXAIWRTP EDLRTWLRHQ VTTANKNNPN PITAMKRRYL SVGKPDADNM
VRISGLVPAA TAALITANTA PLTKRGNLVD LPAAEDMRTR GQRHADALHH IMEIYNHGIV
TPARGGTASI IISMTTDDLD EINHGDHGDG SLLNNLYPTN TGYSLNLAEI MNLIAAKYDF
AVLLDGETGQ PLNVNRMQRS ANLTQRIALF ASELVCSAPN CDRPQLECEV HHLDPWMRGG
LTNLVNLTHQ CFNHHPRNDD SRSGVNGKGF MDRDPVTGRV GHYSASGEGP VFNRSAAADR
SGGA

> aaRXA00077 (1-1362, translated) 454 residues

MNDENIQSSN YQPFPSFDDW KQIEVSLLDV IESSRHFSDL KDSTDRSALD AALERAKRAA
AVDTNAIEGI FQTDRGFTHT VATQVGAWEQ QMAMKGKHVK PAFDDTLEGF EYVLDAVTGR
TPISQQWIRN LHAVILRSQE SHEVFTAVGV QNQALQKGEY KTQPNSPQRS DGSVHAYAPV
EDTPAEMARF ISELESKEFL AAEKVIQAAY AHYAFVCIHP FADGNGRVAR ALASVFLYKD
PGVPLVIYQD QRRDYIHALE AADKNNPLLL IRFFAERVTD TINSIIVDLT TPIAGKSGSA
KLSDALRPTR VLPELHDAAH RLQESLFTEI RSRLDEEGKR NGLEFLLQRI FIGSPFNLPE
GYNAFPDSYC LTLAFNSNSP KQIFHPLSIV IAARDGKRAS SDLVAATSIG YNFHAYGREV
EPVVTESERE RVKIYADGIV DHFLTELAKK FQQN

> aaRXA00079 (1-222, translated) 74 residues
MGLVHTEFTP INTYGILDHV VTLPDGTKVL NPFRVIPHDT GSELIFTVRP NENFEEDCQA
VAADLERLVA LAEK

> aaRXA00080 (1-420, translated) 140 residues
MIVLLFINLP FAQLWAKLLL IPNHYLYSGI ALFCGLGIYA TSGAVFDLLM LLGIGVVALI
MRRYGYPLAP LMIGMVLGPL AETSLRDALL SSVGDFSILV SSPITWSLYA VLAIFIAVSV
ITAIRGRRKH LTSQLETIDA

> aaRXA00082 (1-564, translated) 188 residues
VNVTEQSGES HIDIPESHQL PGPRPVGEGT FWEGRSGLIM PAILTAFSLY LLIGVLNMDV
GNAAFPGPRF FPTILGIAGL LVAVALTIQT IKYPMHPENE SGRSWKFHSD YVSLAWAIGG
FFAFAVLLPY LGWVLAGSLL FWTMTRAFGS KRPGFDVLVS LMMSSVVYLA FDVGLGLNLP
SGLLGGGF

> aaRXA00083 (1-300, translated) 100 residues
VLALPSSIID PLWCQFAALI PPVTDTHPLR CHRPRIPDRI IFDKLIQVLV LGASYAKIAD
TTCSATTLRT RRDEWITAGI FEQLEQICLE FYDRIVGLDL

> aaRXA00087 (1-528, translated) 176 residues
MIGGIIGLIL SVIIMAEKLA ILEDPGHITS CDFNAVLACG DVMRSGQANA FGIPNPLIGI
AGFAAVAIIG AGILAGGGFR GWFWFGAQAG LTFAMMFCHW LAYQSMSVIR ALCPYCMGVW
TVSIIMFVLV TAWNVKTFSG SDSTFVNALY KYKWVIAIVW LLLIAAAAVW SFRYMF

> aaRXA00093 (1-2223, translated) 741 residues
VTTLLAATRP TLRDAFKHPW RSLAAILLVA VPMFLVSFFL TYDQSINNAA SYPGSQVQAH
YDGEGAYQLL QENLPEDFHL ELFANGYPEV SFGDEEVNFF VVQSTNVQQA SFPADALDVL
GATIGDTVTI HGTPVEVQSI SPTNILLPEG TLFSLENFSE SETFSGTWYF PGSNFTEENR
QALEAVGFEV NEYRRGPISV DPNLIPSYIM GFLSTTILAV VALMLISPVF TISASRQTRT
FALLASQGAT PRHIRWAVLT YGLFAGLVGA SIGLVLGQIG IYGWWKYTYP EFSLTTPWLV
LVGFWALAII ASTIAAFLPA VFVSRSSIIN GIYGGISDKI IRWSPRMLIG PIVLIAAAVI
ALFIGDGEWG GVVKQLCFLA AVIALPASVP AVLWALGRLP GLTFKLATRD MLRRSMHSIP
AIGALAAVIM LGTFMQTTGL ATQASDREAT ASVYPEAVFL RGDTQIPGLM GQKIDVYGDN
HGFGIYELDV DFYSANYVPA LTSFFGGPVI ATPKILDMFG VHEQADIYAP STYNSGLQEY
AIYPGDETYM LDTAAVLPPL YSHVLLSPET FEEIGGQTEF LGTIVLPQEL DDQTVQAINR
SRDAHFSHDG HNSSLASSAA LTAVAIVVVS LVIVLANRKL QQHALIAIGA TPGTIYKVNA
LNAALLALVG GIMGLVSGWI AALLTGTTDE IVDGAILNYG TLEHMMLPWP LLVSLLVVAP
LVCAVIGAIA SPSGRHQEAS I

> aaRXA00096 (1-303, translated) 101 residues
MTNAGDNFEI RMPSGTDDPL SDAEIQKYRE EINRLDREIL DAVKRRTKIS QTIGKTRMSS
GGTRLVHTRE VAIINQFREE IGEEGPALAG ILLRMGRGKL G

> aaRXA00097 (1-1161, translated) 387 residues
LFTNFFAVNN PDSPPARQKT KLRELEHRFW QEHLPGDDDD HSTAISSLAI VTGLTKAQVS
RISIAFATLA DLPELKALQQ KLYHLDLSRL ITISNELAGI NPDNLAGADA ILTEYLTATS
PNQILPSPAS IGRKIKEIRD LLDDARATGS RGTQDDSSFG VTFSPDGTAE IGASVDAVDG
HIINDAVTQH AKKNDLTYGE AFSDILRNNI QVKVVLNLYT AKDLANAPVW ASGIGWLDAK
TGTFWSEKAN KEQDMDAAAK ISTDKHDPPP ALRDALIGRD GTCRFPGCSV PALKTQADHR
IPYEEGGETC LGGIGCLCQH HHNMKTDGRV TYLLDPFSGI IVWLMGDGTW AVSEPNGPLN
PKNARWAQTV AQHRARHHKR WVKEDAK

> aaRXA00101 (1-408, translated) 136 residues
MRLILNLIWL FFGGIWLALG YVFFGIIACI FIVTIPAGIA SFRMANYALW PFGRTVVRNP
KAGGFSALSN GLWFIIAGLW LAIGHLTTAA AQAITIIGIP LAIANIRMIP VTCFPFGKEI
YDSNRIPFGY EPMVKF

> aaRXA00108 (1-543, translated) 181 residues
MKKFFVAGAV LSSALVMAAC SPANQSDSTS TSVETTSSSS TQVSDAVITT ENAVVRASVE
DSDMTAVFAT LVNNSDDEIN VSGETADVDA ASFEVHEVVD GVMQEKPGGE VIPAGESIEL
APGGDHLMIM GLANPIEAGD EVTVTLELAD GSEVKLDPIP ARTIAAGDED YGDLGTEGHE
G

> aaRXA00110 (1-549, translated) 183 residues
VSNKDGLFTD GNSTFAPKVD SIPLSDVDTS VSGEASIGTL ISNATSQMSS LFRAEVELAK
TELAGEAKKA AIGGGAFSVA GVIALYSSFF FFFFVAALLS EWIKPWAAFL IVFLFMLVIA
AALALFGWRK VKKMGAPKNT IQSVNQLKNL VPGQASEKLE KANKRGLYTS ASFHSPGAIT
GDH

> aaRXA00114 (1-489, translated) 163 residues
MKLLKFAAAG TFALALAGCT QTESLVATIE SATSAAQASG NDVEGDQTSA FELSVGECFN
DTYEEEISEV PIVDCAEPHD NEIYYLYDIE GDDFPTDITT TGYEGCLPTF EGFVGAPYET
SIYEVYPMTP TFGSWTNGDR EVVCSVYLAT GEQMTGTAAG TAQ

> aaRXA00117 (1-591, translated) 197 residues
MTSAQPITSV DAQTLKSWID KHEGLTVIDV RTAHEFSNLH IKGSYNVPLT TLAEHSEEIS
SRVGEHVVLV CQSGIRAGQA QQKLAPLGIS TVAVLEGGIN SFAKADGDVV RGTQVWDIER
QVRFAAGSLV LAGLAGGKFL SPKVRTLSGI IGAGLTFSGV SNTCAMGKAL SALPWNKTKP
VPTETETLSK LPSPKEN

> aaRXA00118 (1-255, translated) 85 residues
MQLNPDEITP VLNRLKRAQG QLTGVIRMLD EGEDCKAVVT QLAAVTKALD RAGFAIIATG
LEQCLTNPDG DMDKKELEKL FLSLA

> aaRXA00119 (1-759, translated) 253 residues
MLEFPADVIP ENIKHIAQTK FQTEATSVED IRRAINLLSD QAERAGASFN PGFILAQVGS
TIVEVYGGAP VAWLDAVELL ISPDVEWVGV HGSRKLDINV SGELSGVISA GDKLGELLGD
DWTINIVHGE YKIQIEDARP STAFLADATE LINQANSEIV PFHVRMLSNS KIVMSGFSDY
SLAGDAITSA GKLAELARPF AHWKENVIPT IEIAMDYEPS PVADLWQGDS SETPEPFDDF
ERLLREEMLI PEI

> aaRXA00120 (1-654, translated) 218 residues
VESLYFDSAD LRCYTEKIEG LKFRRKLRIR TYGDGVLTPE STVSVEIKQR VNKVTQKRRL
DLPFIYALAL GDSTGAAVGE QVDVEKLLEI SPENQHALIH EMASFAKNYR LRPIATTKYH
REAFVGADAE ESSRVTIDHG VSGRDRDFLL GQDLEDRPTV AQGLAVVEIK CDERVPFWLT
DMTAQLEMSV IRMSKYCETI EAFHNRPASA FGAVDPIF

> aaRXA00121 (1-711, translated) 237 residues
MLSDLSSIFD FQDLSGTFSV VDVLITLVLS FVLTSIVGVV YQKTHRHISY SQSFVQTLVL
VGMVIAIIML VVGSNIARAF ALVGALSVIR FRNAVKETRD VGFLFLAMAI GMTCGTRFYV
LAIAATIVVC GVLFIMYRFD WFKADIQRQV IKVQVPADGQ ADSGRSYAEE VELILAQYCT
SFEMMSAESV RGGALTEFSY TAQMRKNVKP HELVAKMRDV NYGQKATVLT GHDQTDV

> aaRXA00122 (1-1623, translated) 541 residues
MNRRLFLGTS AAIIAVGGVL GGVQVVPYIS SGEIQTSASS TATIDVGAGN VDIFDTSVSH
EISLQVSQES LDEMLADYQE DGSKTWVKAT ITIDGVTIEN VGIRLKGNST LSGLGRTSEE
GGPQAPEGVE EFTDLSEEEI AQFEEQFAAQ QETTDASETG ETAENEETRG PGGGMGGGGM
GGMTSVDADD VSTWPLLISF DKYEDGRVYQ GMTQLALRPG TTVVNEAMAL ALTAETGQVS
QQSSFTTFSL NDEPSTTRLL LKHPDENYAD ALGNGVLFKA DSNSSFTYQG EDQTEYDGQF
KQINGDGNGD IQPIINLLKW LDTASDEEFA EHLSDYVDVE SFARYVATQN LLVNSDDMAG
PGSNYYLWYD YDTGLISVIS WDLNLAMSGS TDAGPDDEIS MGGGGGGGMR PGGTTDTEIE
GTATEDMPDM GNMQQRERPE GMPDMGEMPD MGDREGGGSM GGNQLKERFL ASDAFTEIYE
QVYWELYEEM YGSGTAIELL DEIAASIPET DAVTADEIAT EVASMREWIT ARTEALAALQ

E

> aaRXA00127 (1-456, translated) 152 residues
LSPYDGPHRN VLIALKEHGR ADLVAFVGAV VGASISYLAA QGEIEHDITL VPAPTRATSR
RRRGGDPVER VCNASRLSTF PCLQISSRTP DSVGQTAQQR RLNMRVELVR QPRGSVLIID
DVVTTGATIS ASANVLRAAG VQVRGALTYC QA

> aaRXA00128 (1-1704, translated) 568 residues
VSKISTKLKA LTAVLSVTTL VAGCSTLPQN TDPQVLRSFS GSQSTQEIAG PTPNQDPDLL
IRGFFSAGAY PTQQYEAAKA YLTEGTRSTW NPAASTRILD RIDLNTLPGS TNAERTIAIR
GTQVGTLLSG GVYQPENAEF EAEITMRRED GEWRIDALPD GILLERNDLR NHYTPHDVYF
FDPSGQVLVG DRRWLFNESQ SMSTVLMALL VNGPSPAISP GVVNQLSTDA SFVGFNDGEY
QFTGLGNLDD DARLRFAAQA VWTLAHADVA GPYTLVADGA PLLSEFPTLT TDDLAEYNPE
AYTNTVSTLF ALQDGSLSRV SSGNVSPLQG IWSGGDIDSA AISSSANVVA AVRHENNEAV
LTVGSMEGVT SDALRSETIT RPTFEYASSG LWAVVDGETP VRVARSATTG ELVQTEAEIV
LPRDVTGPIS EFQLSRTGVR AAMIIEGKVY VGVVTRPGPG ERRVTNITEV APSLGEAALS
INWRPDGILL VGTSIPETPL WRVEQDGSAI SSMPSGNLSA PVVAVASSAT TVYVTDSHAM
LQLPTADNDI WREVPGLLGT RAAPVVAY

> aaRXA00134 (1-570, translated) 190 residues
MAVHLTKIYT RTGDDGTTGL SNFERVPKDD PRLIAYADSD EANCAIGQVL ALSSPTEDMA
TLLRTIQNEL FDVGADLATP IEENPKYPPL RVLPEYIERL EKECDKWNED VPALDSFILP
GGTPAAALLH TARVITRRAE RAAWIAVREF PSTTSTLPAQ YLNRLSDLLF ILSRVANNGN
DVKWVPGGKR

> aaRXA00140 (1-186, translated) 62 residues
MSDESIEEQE KELAALKAQI DELEKKDKQN KLIIEILSKA VEKNVAEAEA KRARKYPPNP
LW

> aaRXA00141 (1-462, translated) 154 residues
MTTDSNSATI PTPKPIPVTI DRISLIMKEF GIDLSIADEQ GTGSQVASAN LNGHHVMFAV
IGSVLIVRAD RATEMPVSDG NPAWHLACNQ VNCFNFAAKA VVVDRTDNIV IRAEKDVPIA
AGLNDIQLSA MLKNAIDHVL AIQDAVANAG KEIG

> aaRXA00142 (1-477, translated) 159 residues
VPQSPTAHDP NDIQEFNLDA VAGILQDEKL DYRIDEHDGE KVIRTGFINA AISFILLDGS
LTMEAMWRGA PSTDAAAQVL AATNEWNLTQ FAPTIRFFEL NEGTLAINAL RHVVVSAGMS
HNQVGSYVMS SIESAVQCFE WLEQQFPDLV TWKDEHHDH

> aaRXA00150 (1-774, translated) 258 residues
MVFSMHDKGE TQENPADMSG RLNTPISTVF HFFSSLFHDA LRSVAQWSAW KKIAVSVVIV
AIISVTFLVD VPPISVYRDW ANNAGDAFVL VFCAFYILIT QFPIPRTVLT LASGVLFGPV
LGSVVALGST TVSAVISLLI VRGLLGDWMA PRLTHPAVSR INTRLEQRGW LAITSLRMIA
AIPFSILNYV AALTSVPVFS FAIATLIGSA PGTIVTVVLG DAVTGSGNWT AVAFTVFLAI
LGVLGIFLDQ KMPVKPGK

> aaRXA00151 (1-597, translated) 199 residues
MWALHARYRG RDTRRAELVK RFAEALSTLE GAGQFEVIGV EDIRAHITSP LTTCDVVMAL
LAAGDWAIGI GVIPTVDGTV DESDEAIIEQ VKKISSDALR PTAKAGTVKV RIAGTKRDNT
QAFNISAAFT LIGQVLSKRT IEGREATALV RSGLNQNEAA QELGISKQAM SQRLQAAGWQ
AESAGWQLAV NLIEQAGKR

> aaRXA00153 (1-426, translated) 142 residues
VGAIIWFIGA LVLAGLELAV GEFTLLMLGG AALATAGVAL IGVPVWAEFV TFAVASAALL
MFIRPAIRKR LLKPKVLDSS PRALVGHRAE VLEDVGATSG QVRLDGSIWS ARSMDPTHTF
AEGEIVSVID IQGTTAIVWK EA

> aaRXA00154 (1-843, translated) 281 residues
MSFSDPYAGN IFGGHSRNKQ PEYPDVPAKP GLVVEVRGDG FVGAVTGFER TYDGDFVRLE
DRRGRDALYK LRKGAFMIDG QIVNLTRFVE KQAPRKSNSG SRRVENAQAK VAAPSRIWVE
GIHDAAIVEK VWGHDLRVEG VVVEYLEGLD NLEERLAEFQ PGPGRRIGVL ADHLVEGSKE

TRMTKSLPAD VAVTGHPYID IWAAVKPERL GLKAWPEVPY GEDWKTGICK RVGWSDPKEG
WHRVYNAVNS FRDLDYTLIG AVERLVDFVT NLDLSKEDVL A

> aaRXA00155 (1-783, translated) 261 residues
MEIRANVYSP LQNTAVWLGA WLYELVPTED VIDAFVDLGG PHTFGDGGLL DMLRTLKELT
STLIDAPFHG PILTLALSGP GQVPALPAGS RAAVLASASK EGALVLGGVD KQHSWALIPT
RGKDATEWNL VEVEGFLPAI ATVSPGEADQ LLRQATDQAA NIIELSGYAS LAPKSLKNPR
LTVGMLSDFY DTPGLPYAVP ERSAKLFARA DRVAAIAETV QETIGDHSLD PQLIFLWSHI
RTARMAGVSY ALAEFARDYH S

> aaRXA00159 (1-1182, translated) 394 residues
MENVSSVTSD GSVADVHAER WQELLARLDA DAPDIAEGTA AKLLATIPGY ELVDAGPIRE
SSIRNTALII RVINAGTEPK AEDLPEALRL ADERIAQNVP LGSVLHGFRM SLGEILEHLV
QLGPEYNIDP GRMLRWSTLM WAVNDAFSTR ATRVYRDHEV ATAIADSVRR SEWIGKAVSE
GSELSELLWG AAMYDVPADT PLRALAATSP DHAKAETQIQ KWTQRAGVRV LASVQPSVIV
GIVIGEPKRN VDGPGFAVGL GRAEVLSKLA DSYKDASLVL KAADNLKLNE VQRAQDLSWK
LAIHASPRVT EILAQKYVKP LRESGEFAHE IVESLRAYVD NQMNIPAAAR SIPVHVNTLR
YRLRRFEELT GCYLEDTSTV IEVSWVLEVF GREL

> aaRXA00161 (1-462, translated) 154 residues
MSEPGPSGVK EKKKVKASHI VFLLICFIAA CALAWWQWSR FQSGSGTFQN LGYAFQWPLI
GAFFVYAYRK YLQYENESIE LENMEAKMMA EQGKTPVAQS EQEDSFVQLS HRPSLVEDDS
VKEIDESFLP SRPTMDVEEF NRLNDPHARR RRKA

> aaRXA00162 (1-354, translated) 118 residues
VSTTTPIHPE RKKRVRQALT MFSIAAWVTG VFLLALVAEM IMKYIIGMDL PEWARFVPIA
HGWVYIVFLM TTLNLGLKAR WNPTRWVTTA IAGVVPLLSF FVEHNRRKEV TQTFQLNS

> aaRXA00167 (1-261, translated) 87 residues
MYLLNPPVTE PEILTVNEIP TVVAVFDNHP MNDMPAAFDQ TYQVLFPTLG AKGIAPIGPG
FALYTSEPTD TVSFEVGMPV SQPLEGE

> aaRXA00169 (1-2073, translated) 691 residues
MSLGNPAAML AAYNTSTQVA PQPQLGPRAG EVQLSSEQQA MIDYVLAGKD VIVDATVGSG
KTTAIQRLCS IMGADHDVLY LTYSKLLKVD AQQRVRGAKV QNYHGIVYPH LLKAGIKCGI
SESIREFNKN FKHISRTFPS YDLLVIDEYQ DINEDYAELL RNIKSVNPLM QIVMVGDLEQ
KVRSDTTLDP QEFAAQLCED PVFAPFTQSF RIGEAMAAGL ADAWNKPIVG ANTAQQIEYR
SFAEAVVLIQ STEPSKLLCL GSRNGQMSDA LNVVERKSPA KFNKKTVFAS IRDGDSQIAH
PNDAAVFTTF DSSKGLERDT CVVFDYDEEF WDMRLGYPNV DPVVMRNVFL VAASRGKNKV
VFVRSDSLQA AYEAGADWAA GLAVGVVDNN TEVAPEVDAH TPAEESKGDV GEVQSQIERM
MGFIPVSVFK ELPELAPSEY ARPISVTEAF DFKYAENVEA CFDLLDVKRL DNGKGAAIEV
NRSDGLIDLS PTVGNFQEAV FFKDYNVHTA LSAYPSQFAK NLKRLVKKNN SVWRNCLIVT
AASTEQMRYV DQVRSSIPVA AEKALVSRLS TRLNADSRNQ IPLILDGEAV QSKVVRTPMS
FAGVADAVHK GVLYELKFVS ELTHPMFLQL AMYLVMSGMK DGILWNTRTD EAWQVRVPDP
KRFLNAVVLC VSKQDYRVGN FDLPSTGGGA R

> aaRXA00170 (1-1854, translated) 618 residues
MLLAIGVASP VAQAQVEDQF ELVKEISDEQ FADDGVDYVP NRNAPTVKEQ LEDFESAHPE
VVIEYHEHVN DSKDNVEELP LPKRDIVAGE MRSDVIELPE GVSKDEADQV EVAEARLNEG
ARLMAATGCE AMWPTGFSVC GRILDAYRQV GGQLSWLGPP KSNELTNPDG VGKRSEFVGG
AIYWHPDTGA YAVTLDGLRQ WGTLNWESGP LGYPTSGPMD TNYPLTQRQT FQGGDNYYNP
LTGGAVWGDI KQRYEELGGS NHAIGIPITN ELPSGTEYFY NNFFNGTISW RNDRQTRFMY
LATQRVWDAL GRETGRLGFP EADETPEVSG LFHVVNFAER GVIAWNGILG ARELYGDVYS
LWLQYQNTDT PLGWPIPSLT SLNESLEQEF TRGVVLGSGD ALTWIPDDEE RSLEDFLPIG
SSGSSSSSQE MTLFSQRAQY VDCKNLPDLD EQRKTENNIE KNGGPIKKEY SSRGFPTEFR
FVVRKGHYDR YRNEGWGYLK NYCKHNFANH AMAEAVVDKA VIDYGSSPGT SYYKFEKTVY
FLDCRTYTFN KNSGCKEMHA PQWVTIIYNP HTFTGANSNR PKGVISAWCN STPPGGIEHE
PEISQCPDHV NLYNKLRI

> aaRXA00171 (1-231, translated) 77 residues
LAAEVKRLRE RDDARDQQLG VLNEAMFSLL GDGLDRFRES GDEASFNAAL NYQAVVAPEM

FKTVYGVDPS TGEPIPT

> aaRXA00173 (1-333, translated) 111 residues
MSTTIKAAAP YSLHAHDLEQ LAVDLTLVTT FDSNAAVDVT PTHTEAPGFT LHEGTDTAPM
APTLVVPISS DISTAVSEIS TLVQQARTDA ASAIHEAEAE FYNQLAAVLA Q

> aaRXA00174 (1-285, translated) 95 residues
MPNHPPISTF DDRRSAMREG ITDYLANTNA NGLGGYSISD THLDNLAEKF TRTHGEAQYD
AGFDPNDLEP ETFVRDIEMS WDERAIDRAL IHTQL

> aaRXA00175 (1-630, translated) 210 residues
MAVCQLPQPE KTTLIKKDLL LMTSTTNSTA MFNDHLIPMA ELDEQALRDS VGSWAQYKHP
LDQRKEPELV LIRRVNSSER VWVLSFTDLR ADAGLVPRST PNADPSNIRN TIFSVAVRDL
VLDRSLPRLL NLNGQPPAGE WEEGFVYVDY DQSDTVDGYL IEHSEPVSIE SQTTGEMHYF
DKVPGGVAVT NNPDGTEQGD ARRWVSHWES

> aaRXA00176 (1-159, translated) 53 residues
QLMYSTSSFT TVKQTIGIDL AELIQGRALG QAQGEAQGKA SAAALEQAPH NEQ

> aaRXA00179 (1-459, translated) 153 residues
MIAIHAIAAI LFLGPATVAN SQFHVRAYDA HNGNTQAAGS AKTLFKISQS YGMLSLLVPL
LGIAIMLLDW SFYKSEGQFH AAIALSVITW ALLLFVIFPR QKKMMGALDL LEDDEQAAKT
YEIENWDKAK SQLSMFGGIW ALLWVIIAVL MFI

> aaRXA00180 (1-540, translated) 180 residues
MKNFIRVLIA FSVFLCIYTV APHIGRGPGD LAPVTAIPQR ATVLGYDRAS MFGGWLGGVR
EGIVDEAGDT DPYSGNRLDL SSAEVDHILP LSAAWDLGAH RWSAGERISF ANDPLNLVLV
SKAENQEKSD QLPSEWLPSD RSARCWYVER LFAVANAYEL PLPENDIRVG RKQCGFAKPW

> aaRXA00183 (1-852, translated) 284 residues
MTESRRVKMD NVIYANFGSK QRVSTPDDRT QVINKSRHKQ FSPAGTRTVM LTEKNADSGR
RSRGEQYYRN GNVTGMTVLE GRVECTVAGS QNEPFVTTVT FPYRSSEKLR EAYAAIADTP
NGLRLVRDGH LTSSMLDHLV GSPDESIYFD CTCPDRSLVC KHAVASAYHV AEKMTANPGL
ILDIRGQGMA GLEALIRTYH TKVETEPEDN DSFWNGRELP ALPDPKIAPA IDDSDINYLH
KALRMVSYTS LEQLRAVSDI EDMYEILVAN HPDNQQVYEE EDTD

> aaRXA00185 (1-2628, translated) 876 residues
MRIHEIIIDN FRAIEHLELR DIPDQGVIVI HGDNEQGKSS ILEAIKTVLN SKHRTTSKTI
KAIQPVDRDV PISITLEATV GTVRFRIHKR FLKSTAAELQ VIEPRPSNHR GLEAEAALAE
ILESHLDTSL LDALFMKQGE VEAGISAVGI PTLTSALNAQ NGNTEDATED TALMEAVEKE
YLKFYTNSGK ANTRFLQFSK QVETLRTDLD EANAEVAKLS SHVDRVKRLE IDRDQATAQL
PKAEEELAGR KAELEEAQKV KAQATEILAQ FSRAEEQLEQ ATGAQKRRKE LRNKLELAQT
EVEKAEAGQE NLAQEASREA EEFLALSEKF EAARAAETLA VEKVKAARQS VAGIKNRDRK
EHLTVMLGEL DRIGQRLYEL RSVQHSSVRV SQRDIDALQK AITEVDIQRT LVEAQQGSIT
LSASTPTDIQ LGDDTVSATD AGTTVALDRE LTVVVGDVTL VINPGKTAAE SRTDFESAEA
ALAELLDQLD VSDLDQLRER FTAQEQRDAD IAELVREQQR MSGGTETTVL RAELEGLHVP
EDLDPSISVD DAQTQLNEAE ESRELAAEAH KHANAALDGL RSRPVDKALT VFNAQLAALQ
RNLSSAQVEL DRAVAETSDD EVDAAVQRCA EALAGVRVQK QEIEQVLAKT NPDMAQRLCD
AAEANVRSYK TAVSDATTEL VRLEGLIGVA AGAKERLDKV KSALTAAENR FESEQRRAHA
ARRLYALMVF YRDESRKRYA APFADKLSRL AASVFGESAD FDLDDELKIS SRSIGPRTVD
LANLSGGAKE QLAILTRFAI AELVAESSAQ GAVPVFIDDA LGSTDPERLT RISTLFSDAG
KDSQVFVLTC VPDRYNYVEV TQKHSIESLK TANALL

> aaRXA00194 (1-285, translated) 95 residues
VAGSSHTIEP EIYRGVSTLD EPSAAWGWHG LKRNTIQLAG WISVLFMLGY NFGNHKGHVE
TIWLLVITAL LVIGLLIHLF EPKALPGSHH HFSQQ

> aaRXA00197 (1-1011, translated) 337 residues
VAAYLLGVVL FFLGIAVTIA LHEWGHFITA RIFGMKVRRF FIGFGPTVFA KRRGETVYGL
KAIPVGGFCD IAGMTAQDEL DPEDLPRAMY LKPWWQRIIV LSGGVIMNLI VGFLVLYGVA
VSSGIPNPDV DTTATVDTVQ CVPETQISAT ELSSCVGSGP AGDAGIEHGD KILAVNGQEM

ASFTAIRDAI LELPGETATL TIEREGTLFD VDLQVASVTR LASDGSEITV GAVGMSSLPP
TDVYKKYGPI EGVGATARFT GDMISATWDG LKAFPAKIPG VVASIFGAER DVESPMSVVG
ASRIGGEFVE RSMWDMFMMM LASLNFFLAL FNLVPLP

> aaRXA00199 (1-1419, translated) 473 residues
MEDLEIFDRH LQHSDFEDQG SIGLELELNL VDKHMQPALA GHAVLSHLDD EYQSEIGNFN
VEMNHPPLSV KGDALRRLEQ GITSRLGRVR AAATSENVNV AMIGTLPTIT PEFLEDPAWM
TQENRYRALS NAVMESRGEL VHINIADREQ IIHDFTDLAP ESTCTSIQLH LQLAPNKFAA
AWNASQAIAG VQAALSANSP LFLGRRVWHE SRIPVFQQAI DTRTPELVNQ GVRPRVWFGE
RWITSVFDLF EENVRYFSPL IAESRALSGT PMMKGKSPAL HYLNLHNGTV WRWNRPIYAP
GEERSHLRLE NRLLPAGPTP IDITADAAFY YGLVKYLAEE NRPVWSRLLF PDAEKNFQSG
ARSGLFARMT WPTLGQVNVA NLVQEHLIPQ ARIGLERLEV NKDLIDQYLG IITERAKSRQ
NGATWQLRSL NKLEAHGSMP GSDARKAGLA AMLQQYLQNQ ESGQPVHTWA IGS

> aaRXA00200 (1-303, translated) 101 residues
HYAGVTEIPE YRISPDHGGK STLSPFQDWA GGGSMGTAEA VNNAYEIPSY LRNDWGRDWG
SIERYSLRTN SNGDAPKVAD INLETIQRSG LWNPGHMKVD E

> aaRXA00207 (1-318, translated) 106 residues
MEMKLKKASQ VSTATVVAAG LIGGWLTARE SGIRPLGTIP LAASGALAAR SWNEKKGPAV
ATGLLATYVG AFGLSHPLAK KIGAWPAVLT VTAGAAAIAY AVSDSQ

> aaRXA00211 (1-663, translated) 221 residues
MSFLIRVLLS DTPGSLALLA EALGIVEANI QSVDVVERFP NGTVMDDLVI SIPRDVMADT
IITAAEEVDG VEIDSIRPFS GTVDRRGQIQ MLAAVAHQRR DITAAMEEMV DVIPRTMTSG
WALVIDLKGP ITRIAGSLAA PEDDGTVPEN IVLKEARMLN PENDPWIPES WTLLDSSLAI
APIGKHGLAL IIGRPGGPDF LASEVEHLGQ VGDIIGAMLQ K

> aaRXA00218 (1-1140, translated) 380 residues
MSARNPFRPT FGVSPTVLAG RDSLLQSFKL GLAEGPGSPF RALLISGSRG MGKTVLLNEF
EDAAASQGWI TLRAYPDNSM VDGLVNSAIP EALQNLDGPQ SKRMLSGVAI PGIATVTAIA
DPTKKDPTPT LISRLRELAT RLQKHGSGIL ITLDELQSAN VDLLHVLATA VQDLLRDDFD
IALVAAGLPE GIDRLLQHEG TTFIRRAERI LLNPVNHEDS VEMFLDTAAE GQRHMTSEAA
ELAAQISKGY PYSMQLTGSL AWARSTLDNS DTIQAEQVDA VRDEVVRRMG MQVHEPSLHQ
VPDGELTILY AIAQLSKNGE MVSTGDIAHL MGVKPNALSM QRKQLLSRGL VEVPKYGFLN
FTLPYMREHL LNSPHHRPIT

> aaRXA00220 (1-504, translated) 168 residues
MSAFHIRAEQ SHDISAIHDV TEAAFTGIEH SDGTEQDLVD KLRAAKALSL SLVAEADGEV
IGHIAASEVL IGGGVQGWFG IGPVSVRPDK QQQGVGIALM GSALDQLRAE GAGGIVLLGD
PGYYRRFGFE VVPGLVYPDA PAEFFMAVCL NAPAFPQGVV EYHSAFGG

> aaRXA00222 (1-1146, translated) 382 residues
MTPTADIWFK DTLAAHFTRD GDQTTFSYTA DYAGPPIATS LPINSEPVIT RSGAIPPFFA
GLLPEGRRLS SLRRNIKASA DDELSLLLAV GADPVGAVAI FPHGENTQPA PPTVDFDDEL
DFSAALTESG IADPVALAGV QDKASARTIA VPVASDAILK LSPPEYPYLV ENEAACYQLL
TKNKLRIELS KVEVLHDKHG RSGLLVHRFD RTPKGKIPVE DAGQVLGIWP ADKYLVSYED
IAQALTKVCA SPILAMRNLA FQIAVAWLSG NGDLHAKNIS IINKGRGFEI SPIYDIPATA
VYGDTTMALE IQGSKKDLSQ KKFLKFCTSI GLPEKTAMSV ANAALLATEN AAETILASGN
FDTRMNRDLA RVLKHRRSAW GA

> aaRXA00230 (1-720, translated) 240 residues
LIHEQDVQKL LNYITSHFGV DPERWFHPEG YQSIALAILD SIYSTGNRYT GVLNLVNRYC
GLRANEGSHP EADTATDLIE TFYRWGGVDE FVLKTNNRWR TSSKIHAPYK AYAALEAAKV
LAGHSIESIS DVVGRFDSRE SREHSDIARE WLMITGQSSA LTWSYFLMLV GVPGVKADRM
IVRFVTHVLE RPKEISRHEA SRLIEEVADI MCVNYIYLDH TIWRFQSGRP YLQEDSSPFE

> aaRXA00232 (1-510, translated) 170 residues
MNDRAHQRIG DIERSQALDR LGSYFADGYL DIDEFDTRTG AAAIARTAGE IDVLFTDLPE
QQASTAVTPV QDDTEKELDL VLQRGKKLKQ IDSAIWAVVM VSFFLGLFVF NVPYFWVVFI
LGGAASAGAR FLLKVDDADE KLFEELHSKE QSEREARLRI AAQRRRELEQ

> aaRXA00233 (1-417, translated) 139 residues
MSVNEADLNA VEEQLGRAPR GVLDISYRSP DGVPGVVMTA PKLDDGTPFP TLYYLTDPRL
TTEASRLEVA LVMKWMTDRL STDEELRADY QRAHEHFLAK RNAIEDLGTD FSGGGMPDRV
KCLHVLIDYA LAEGPHHFL

> aaRXA00234 (1-540, translated) 180 residues
MAKQKKTHKG LVPVSSRERA SESVSATRAP FRLGAVGIGA IALVVLLILF VIAIPVRNYF
QLRSDIAQTE ASIEAKEQQI KQLESDLNRY QSEAYIREQA RLRLGVIEPG ETAFRIVDPA
LDTDTSVTSD GNEEKPLGAW YENLWDSVTK PEALGEEEIA PPAVEGEVPT LAPTEEATVQ

> aaRXA00236 (1-726, translated) 242 residues
MVISFVGWAL SFMDGTAPIR QLQQIPEDVP PARGVEVPQI DTEADGRTSN HLRFWAEPIA
QDTGVSAQAI AAYGNAELIA STAWPGCNLG WNTLAGIGQV ETRHGTYNGK MFGGSSLDEN
GVATPPIIGV PLDGSPGFAE IPDTDGGELD GDTEYDRAVG PMQFIPETWR LMGLDANGDG
VADPNQIDDA ALSAANLLCS NDRDLSTPEG WTAAVHSYNM SNQYLMDVRD AAASYALRQP
AI

> aaRXA00237 (1-378, translated) 126 residues
MKLSHRIAAM AATAGITVAA FAAPASASDF ANLSSTNKEL SPQYNWVACG ILEGGLKAAG
VLEEGQYNRE LAEAIAAKGE GFWTTQFPQI GDWNEDQAAA LADRAQTCGL VKADTYLSEL
SSNFSS

> aaRXA00238 (1-369, translated) 123 residues
MKKLRFATIA AATVALTASL TPSASAQDFN QIIDNFDCGI LQTAIYTTGL AHENSTRSEL
AANLRNSAAV GQLDFPLNIA ATGYSERIAN RALTCGIVKE DPQDFLSQLQ LLSSNLSSSF
FTA

> aaRXA00239 (1-585, translated) 195 residues
MRVVVVDPKH PVLPVSFLEA VLGRGEPVSI DPDFPFDIEK WGIKTSTSAS WFIIAKPQST
LLIDAPLNPL HEAVGVMRAA VGRGEWERTQ THESLIPYLE EESQEFIEAI HGGDDEHMKS
ELGDVLLQVL FHAEIAARQG RFDIFDVAAS FVAKMQSRSP YLFDGSTGIV DTDEQQRLWA
QGKAQEKLSS EEGRR

> aaRXA00240 (1-210, translated) 70 residues
MGIFDEAKKK ATEFLDSDSG EQKSDGLLDK AADKAKGLLG EDKADQINKV RDAVDERIGK
NNGGEENPAN

> aaRXA00242 (1-1203, translated) 401 residues
VNEWRTVSLV DSTALTVIIS VAVFTSAVAL LGVVKKRSRW RVLGALISSA VLTSGAWVVI
EKLWKPFPDP NPWTIYLSAG LAVFPLLSIL FRTGRTRILM ATLTVIALVN TAAVINVIYQ
PYPTLGSFNP VPTAVSMSYA DFESQTTAPT MDDREVGALV QVPLAGTTDD STSGFDARDA
YAYIPPAYWD NPSLQLPVLV LMPGNPGQPD QWFSSGNADQ TADNFQATHD GISPIVISVD
GTGSFSGNPA CVDSDAQSVM TYLSHDVPML IKQKFRVNQD QRTWTIGGLS YGGTCALQIM
TNHPEAYGSF LDFSGQEEPT LGTRQQTVDQ LFGGDEDAFK AVNPEDLLNQ AISSGAHTYS
GISGRFIAGS NDKSAVSALS HLDNLSNQAG MSTTFDTVAG G

> aaRXA00244 (1-636, translated) 212 residues
MNDQLWEGDT GTLTFGSRKA LVQLLKGPMV NALQHVEVWR AITTDQDALN AVLNNLFLEL
VLDEDAGVAF TRPANGRQEV LVGNNKTEAM PKVLRTETLS HFDTLIILIL RQELTMAPPG
ERVIVDREEI REQVLLYRVD EERDEAKLAK RFDAAFRRIV DYSLAKKTET PERFEVSPAL
RQIFDADTVA GVRAEYEKFN KAAHDGNEEE QK

> aaRXA00245 (1-1485, translated) 495 residues
MTVVSHALGF KRFRQESLEL SLLRSDNFPV VLAVVAQYFP QGAIAKPASE LYQLLSDDFR
VLREEGFELP KSPSDYVSDW VKSRWFVRRP GSSQTGETVE PSEELLAVLD SVQRWDNPHR
SISASRIESL TQALQTLALE SDPSTAKRLA ELERERDRIE RQIEAVHAGE FEVLTTVQIG
DRVADILDLA ASIPADFARV RHELSDLNRK LRRQLLDPED SRGDVLEEIF RGVDLIGDSD
AGRSFNSFFD VLLDRERSSL IDRWIREVLG RDEAIDLDSK LRTGLYRIFR DMEDASFEVN
GEMTGLARSL RHYVTTEEFA ESRRMIQLLR DTRSAAAKAA EAGEVTSLNH MDTPLVRIGM
DVRSIAGLKL KNPGEERVED LPEPVEEQEL DTEVLMEQIR ASEIDFEELE EAVSLVLAEQ

SHATITEVLE HFPATQGLAS IVGLLYLAMR DGVPTGRAQI VEWESDDATH RRRITGWQFI
RGLNSEDLAE SEMDK

> aaRXA00247 (1-927, translated) 309 residues
MQTLIFIAIA GVAAQLVDGG LGMGFGVTST TILIMLAGLG PAQASAVVHT AEVGTTLVSG
LSHWKFGNVD WKVVVRLGIP GAIGAFAGAT FLSNISTEAA APITSLILAL IGMNLVWRFS
KGRIRRDYSD RPHSRGFLGG LGIVGGFVDA SGGGGWGPVT TSTLLSLGRT EPRKVVGTVN
TAEELVSLAA TLGFVVGLWD DLVANLSAVL ALLIGGAIAA PIGAWMISRV NATVLGGFVG
TLIVTLNLPK VLNVVGLDFI PTGLIQVTVL LIGLPLTYLG FRRYRKNLLN ETISSEVVSE
PKGQKIKST

> aaRXA00248 (1-723, translated) 241 residues
MIPLITLSHG SRKKSAAAGI TALTHEAGRM LETPAVEAHL ELAEPSLDQV VATLSAEGVT
RAALVPLLFS NAYHAKIDVP EAVKDASEKY GVELLVGPHL GTGSDVASVL AQRLSADAPT
DAHVILYSVG SSHVSANESV IDLAHTIALL TGFSVEVVPA TGGPGAGGAG VIEVASKHKA
VHILPLFVTE GLLLDRAIDQ SANIAAATGT NFTYSEPLTT DLAPLVAARY HAALSALLAH
I

> aaRXA00250 (1-216, translated) 72 residues
ALGAALGQFD FVRNNIDLIF LLIVFISVVP GLVGMARKLA DGHKQANTEP QENPAVQTAP
VKTQEAQEAP QN

> aaRXA00252 (1-243, translated) 81 residues
VFAGGVDGVA GVWSVAGAGV DVDDAAGCRA EGGQELATQL GRDNDVEIKV CVPFGHTAGF
DGRVTRHRRG VHQRIHVVEV F

> aaRXA00256 (1-771, translated) 257 residues
MFMSLKTRRI FGALAVSLSI SFSAIATPAA SAQELVVSTS AVNEFGVVTS DITAEQILQA
QDLIAEMKQS EDIYEYFGAL SDVEQRSIIA AVKENPYLIE NESPRMRVQS ETPDEETPDK
KKPSKTYKLY MSILEMMSCI NLVDVPSCAQ ALKAANIAER EAKARYPDSV TNGKGDALRH
CAWSALMTIR IGKDAAERIG NAHETVVRGE PEEREMDLIN NALGRDIGER FIINGDETGA
LSTCVSMANI GLLHTLL

> aaRXA00257 (1-456, translated) 152 residues
MKIKKFSITA LASVLMLTGC ATNHSSPLYS YLNASTSTTV EQVRLSDLYG EQWTEFALVC
PYTTKDEVKE ELGIKINTYL TDSTDDSSND IVLRDKDGSY DWIYFNRFDI VYLCNGSAEN
LKIYPIDSVL EFEHRDDYGT WKLSAITEPG NQ

> aaRXA00258 (1-672, translated) 224 residues
MRHTTSATST TSIIKRAMTI SAAVLIASAV GLTTSASSLN TLSATSPESP DQAATVSQAE
SDSELDDGMK KLATKILNRA DNAENNDDTG KNLNNDDKKL NTKQPQRPAE KVAQAIELSL
DTTTNAEKPD KSFHHEKPVN AYVTSVSYNK SNDTWTIKPS DSAVNTPTND AERISNIIQE
ARDLGLSDDE SLTQQIAFHA HAANYLVTEW VLRGYQLANP KVLP

> aaRXA00260 (1-1176, translated) 392 residues
MHSDAVLAGA SIRAKIGALA TIYGAQNLEN VIHSVSFTDR RISPDGQLSK ELFREAWSAN
LLIPDPSSDV EAFAWSEKNS TELAGGIFVE KMLFTVPDTG RSNNRVQSFS EELRNHISLK
DMYSTQREEL LDLAYELMVG EAVRFANFRL YDQNLPPLTE ANIDKLRAHL REAAASASLG
VLYLMVWRSV KDAAAAHTKH TRMSKENATT HSVTKVSIFV DQLLSGTFPC SKPFHESSQV
PLSEATKIVF NLIMESPPME TEPSVLRNSL QEHSDWELLQ QCDEKIPDRE FLMEWLYQEQ
TWTAEQFFDA LAMVSSSEFR ICAPGCAHQV SADIATQVLE FHDRVSFHDD RKSAMLAAEA
TIIGNKIGSQ ARAGDFVLGE VITKLQNIPG EV

> aaRXA00261 (1-429, translated) 143 residues
MYSDKLILLF LSEQDSSYEC CVGLLDGSDG RDYIEKLLKG RKLKNHFLEW EDINKADVAR
EEIYKGQLVH LVFVTALSTP GEISFVFPGQ SLMSATLEED FAALVLEEER TSFRPDLSHL
WSLPVGWVAP GLEGFVERNS EAA

> aaRXA00264 (1-378, translated) 126 residues
LLVDSGDVQL EGVTVEPTQL AYTGINETQL RIRNIGTTPA RTVLLGGEPF TEDIVMWWNF
IGRSHEEIAE YRKQWQAEAD RFGITHGYIS HHKDGLTRLP APELPNAAIK ARKNPAPTAR

PETRID

> aaRXA00267 (1-270, translated) 90 residues
VSVAVITRIA SSPSFIAIVA IIVAAIALFV GLNSRVGTKL VDQPVVFTQE QIDQLKELKS
RDQEAAAIRQ AQLWSRGSSS EAVAEAVRKL

> aaRXA00271 (1-990, translated) 330 residues
MFSSRSKVLA SIFTVGALAL ASCSSDSSDS STSTDAAGGD SYRVGINQLV QHPALDAATT
GFKEAFEEAG VDVTFDEQNA NGEQGTALTI SQQFASDNLD LVLAVATPAA QATAQNITDI
PVLFTAVTDA VSAELVDSNE APGGNVTGTS DIAPIEQQLE LLQQLVPDAK SIGIVYASGE
VNSQVQVDEV TKAAEPLGLS VNTQTVTTVN EIQQAVEALG DVDVIYVPTD NMVVSGISSL
VQVAEQKQIP VIGAESGTVE GGALATLGID YTELGRQTGE MALRILQDGE DPATMPVETA
TEFTYVINED AAERQGVEIP QEILDKAERV

> aaRXA00272 (1-372, translated) 124 residues
MPEPETSTMG SIQKSGEWLV PAYSAYKLNG ADLFLDIRHA TAAAPVITFD VNMTMGSMTL
IVPPGVYVEV QMASKNWSDF KVQTTNPLPG APRVFITGVA RASGLKVFTK HPHEPFGFWQ
KMFE

> aaRXA00273 (1-1113, translated) 371 residues
MSLKLNSRRL ASIAVAVAVG VSGVAAVGAA PATAQQVGAG TPIHVVNLDR TVVDPVTGDI
TFHFTDGTFV TLKAGVDGKD GTDGQDGVIG KDATIVDVAT ESNGDVKLTF SDGTVVTIPA
AKDGVDGEDG KDGEDATVVS TATDANGNIV ITFSDGSVLV VANGKDGNDG SDGQDGADGE
NGKDGENGAN ATIVDQIAND DGSITIVFSD GSEVTIPAPA KGATDELAQC LLNPKMLLLA
AIPAAGAIAN AVAPAIPRVV EDVRAQFNLP SLNPQFDQWL YNATKDIDAG LLISGATGLA
VLSVLADDFC GDIDADDNAD GDVAAEKPTG SSGLGSSEQS EKVDGDDDSV IDTETDADLE
VEEDPELVNA G

> aaRXA00274 (1-2610, translated) 870 residues
LSLNLKKNSA RSITALTVAG LGLSIVPAAS AQDVADDTTN SDSTRDAICA AAPLVAGAAV
GVGLLSQQPE FQHMVSQIQS DAQRIGQDLS NQFNNSLESL NIGLGNGVHG PQQNAVQGID
LTEAARTMAG WNDLAAQVGQ TAGPAIGAVA GTAGLIALVD YCWLEGFDFA GGSSGTDGEN
GVDGQDGTSI TITEIKTDDD GNTIVVFSDG SEITITNGKD GAAITIVNTY RDDEGNTVVE
FSDGSTIVID KGEDGKDGED GKDGEDGKDL TVTDTYINDD GDTVVELSDG STIIVKKGTD
GKDGADGSDG ADGVSITVEN SYVDADGNTV VEFSDGSNVT INKGEKGDKG DAGADGEDGA
DGESITVVNT SNDAEGNTLV ELSDGTVITI NKGDKGDAGA DGEDGSNGAD GESITVIETR
FDADGNTVVV FSNGTEITIN KGEKGDKGDT GEDGKDGLTP YIGPDGNWWI GENNTCTAAR
GNDGKDGDTP RIGDNGNWWI GIVDTGVPAR GQDGANGADG ANTVEIINGY WYINGENTGV
KAVGENGTNG ADGQDGENGT NGANTVEIIN GYWYINGENT GVKAQGPKGD KGDTGDTGAP
GEGSGNVDIE IRESSYPGGG QATIIILDQF EYEIPHTVIG DNGNWYIGEK DTGIPAQGGT
GTPGEDGLTP HIGDNGNWWI GDTDTGVSAS PTPVGEAVAG VTDVVFNTSD EPKTITATIN
GEEYDYTLPP HSAVVFYATG SPMAYSLPNA SGLTVIGTEE TPGFTTIRFS DHSTVTIPHG
RDGTNGTNEL TVRMVSPRTS VRTETGGSAK RTLVFRQPLA VAATLVPAMT ASRSQVMILD
SQMMLRPVQR PVQMPKVLLT KGHRATTMTD

> aaRXA00275 (1-459, translated) 153 residues
LDKRRPELSD DFIKAFDDFL HSFACLDKTT ITLLAQSPVR TSTGYTGTFI GIPNNEPLSE
EPTPTIYIVH DNHTGIIHSY PARMINLKSE LGSAEMIHEA IWGSPHQQQL ISWYETYYTN
IYYGFNPPTE PHKSLEIFAQ DFCLTPPEKP PFF

> aaRXA00276 (1-342, translated) 114 residues
MDDLSSRQDH EAYGTYNPDN GVMPDHVIVP SPYEPYDDAA PIDPFDYDED LLDEIKEERA
AHAVDAQVTE TTKADADVAQ LATAIDEQNR PTKSCSLRQI ARNYSPGWIS VAQN

> aaRXA00279 (1-1386, translated) 462 residues
LDTDDSPDHW LDPLTEKDTS KRTLVNSIVQ ETFGQPIFVA RKIWAFVNTS PGRMTLMTII
ISIAIFAAGY AMSVSSDTRQ SNLDDLITNA EPVSYNAHVL YTSLSVADTT ATTGFVQAGV
EGPVNRVKYH TAIDRAAVAA THTAASADSS NEHLMELVLE IQRQLPVYTG LVETARTNNR
AGNPVGVAYM SEASAMMRNE ILPMASELYN LTSRAVSDQQ RSVTGPQWFP LSGLLAALAM
LIVAQWWLMR ITRRRINKGF ALATVMMMTA TLWVSAANWA TWQAGTKGFE EASGPLNSMT
TARIYAQQTR TTETLSLVRR QSIQGSGTGF TATINQIKRA LDEYETTAQS QTPEHQQLIT

AIRNAIAAWT ADHDEFTVLL ASGDYNGAVN AVLNKDEEGQ TSFDELDTAL AELIADSRSS
MRSYIQSGLQ ATELVSVMVM ILSVVSVLAL WVGIRPRLQE YL

> aaRXA00282 (1-789, translated) 263 residues
MSRDDQTNNN GEGDDTSREQ SWDQSWQNLN KDSQYGPTSH PEDAPGGFQG NGQGNSRGNA
QGNGQGNGQG FGPGNASGYG GYGQPYPQTP YQNSYQGYGA TSPQNDVALE ASNGKVDIMR
AIRFGFKATF ANPAVWILGT VGLGLAFMIV SGLLGYLSFL IDPNAGTTTS GFSVSETLLN
VAIGIITFAI TICVMRGALL SVDGHKVRFG DFFKPINVGQ TVILMVGLGI FGIILGTFTT
FLTQNLVSFN DAAGTVEVNN SGL

> aaRXA00283 (1-1128, translated) 376 residues
LALAFLARYD ALIMAFVAMW TVGFMTWRAR YRRGFRDRIG FALVDMLLLV WPIGFAFVAW
TGASWLTTGE LFAQFTSTDG NAAIIAASGG GAIGPQALFD ASVRTFLISP ALLLVAVVAV
FFAYRRRDPE PIIPLALIGS VVFFQIITYS LGSTFGLLRF FLTALPLTII LLFQIIPPRH
RFPSLRPGAC YRDRVTGKYV PKTITGVLVL AIFGGTGITL YGMSSANWAP QEYAIQELVF
NMGSPSQDAV HTLNTFSTEM DVADFVDSLN LGDGEVLLST TYGFAVLTAS NNQKQFIIPS
DEDFITTLNE PAEHGVKYIL ALPREGRGAT DPINLRYPDM YETGSHIATM EIEFINQGQG
QPNWRLYRVL TTPEQS

> aaRXA00285 (1-513, translated) 171 residues
GTELGALLLR VLNREEMMDR FARELGFFVD KQLEEVERIN CHHNYTVQEE HYGETIWLTR
KGAVLADEGT PALIPGSMGT ASYVGSGKGN AEALRSAPHG AGRRMYRNQA KKRFSTADLD
SRMAGIVYRP GKEWIDEIPD AYKDIDQVMA DAADLVTIRH KLRQIVNVKG T

> aaRXA00286 (1-564, translated) 188 residues
VLKIPRLLLR RVLPVLITLA LLCGLVLAWF IYPAKAEPKK DDVVLVLAGS SDGRHEYGAE
LVEEGYASNY VVSNPSGSKD KVGYAHCAGK SRPKNAESFC MDPYPVITSG EARTFNELAK
KEGWESVLVV TSRTHTQRVR TMFDQCYTGD STVLNVNSLG RTGLHNAVLH EIGGFIKFWI
TAPCADTN

> aaRXA00294 (1-429, translated) 143 residues
MSISNAILRG VSGAYILQSG YGKLGLGLPNEA AAGIQGLAAT GIPAVADMDS DTFGKFVAYS
ELGIGGALLA PFIPSRLAGL GLGAFSTGLL AIYFRNPAMT QDDGIRPSQD GTGLSKDLFL
AAIAGALVFA PAKKRKKAKN KSK

> aaRXA00297 (1-912, translated) 304 residues
MGFTVVFIVI GIGWILGRRD TLGTHAQKPL SLFVYYVATP ALLFDRVTKS DTSTIFSLNF
VVIALSALIV GFLFFLLMRF VIKRTAAVSV IGMLAASYAN AGNLGIPLAA YILDDFTVVI
PVILFQVAFY APITMTIMEM LTNKKSTNLV RNLLVTPLTN TMVLAAIAGI AVSLTSMSVP
VVIAQPVEML ANASVPLALV VFGLSLSKSK ILEKGQVSRR DVFTAALFKN VLHPIVAGLL
ALAFGMEGTA LLSAVILGAL PTAQNVYTYA LRFRTAESMA RDTGVVTTLI SFPVLVAVSI
IFGS

> aaRXA00318 (1-210, translated) 70 residues
VSDVTVGDIL RILDEAYPPA LAESWDKVVL ICVDPTESVK RVGLALDCTQ ALADKAVDMG
LDMLIIHHPL

> aaRXA00320 (1-180, translated) 60 residues
MAKEDLKWFY DLATGKVFQG KVSGFETRMG PYDTEEEAHH AISIAAARTK AAEIWDDKED

> aaRXA00321 (1-1815, translated) 605 residues
MGQHLEVETK FSVSESTQIP QLEAIAEVDH IDRTEIHQLS AVYFDTVDLR LTRAKITLRR
RTGGNDAGWH IKFPGTIGRR EVQAPLDGEG ATETLPPREL LGHIRALIQG RELTPIAQVD
NERHMSYLAD EDGAVIAEFC DDHVSTVSHL PGGVRKQWRE WEFELADGTL AEEAISVLLQ
SAQSVLTAAG AFVSNSPSKL VSALDESVNH APKPPQMAQL DKNDPARGVL AAIAANASKI
AEYDPRVRAD EYDSVHQMRV ATRELRSHLQ TFEGILGGED YLNLEKELKV LANILGRARD
AEVVEERLSN LINTEVGDSI EEETKKELLE DLGAEYRREH ERVVRALDND RYTDLLQALE
NLLVDPPLIT EVEEPEATEA PESAETTEST DVSEATEEAD AEAESVEEAT EQEESADAPE
SADLDALDEE YSPGSQAPVE EPKEPKKVDA ALVLLEHLDK AHVKLVKLEK KARSQWDDLS
IPMLEREENF HNLRKAAKKL RYSAEAVGKA TTVETKKLYK ACSGLQSVLG DYQDAITSRN
ELLRRAQVAR RQGRDTFAYG ILYQHEQTLS REYLTGYSDA FKSVEKAYAK LAEDTAKRSK

KNKRK

> aaRXA00322 (1-1104, translated) 368 residues
MTLSHFSDNV TDAQDSYRQI LEESIISHLG FCALRGWTPA DLRHEFSADI DPLLFHALPE
IAYSCSDEMY TLWVNGTRAA ETSHLPVMTL EKILTELPKL STLPDWAMLA ELHALDNQDT
SPMTPAQAKA HHRITALLKK AESTNFEEEA EALILKAETL RQQYRIESLL INSYDQDVQA
RSSTIRASRV YLEAPWIRHQ YKLLNAIARV HSSEALLITK SGICTLFGEQ DDVAHIIDLF
NSLNRQRAHF MKTSAGARIA QLNGETSSYR RSFMISYASQ ISRLLISAKE DAFNELAGQA
PLAHSAIVPV LENRSVRSKE ALKETFPNMR TMTFKSTNRR GIIDGFNAAN ESHLGGESAS
LEDSTFMF

> aaRXA00325 (1-645, translated) 215 residues
MTSIIASNSD LSEALRTHTA QAHEEAEHST FMNDLLTGKL DAQAFIKLQE QSWLFYTALE
AAARACAEDS RAAGLLDPRL ERKETLEADL DKLHENTTWR DNVTATAATA SYVERLESIE
AAKDFPRLVA HHYVRYLGDL SGGQVIARLV NREYGVSEEA LSFYCFEDLG KLKPYKDNYR
AELDALELTA EERAALLDEA SDAFRFNQQV FQALA

> aaRXA00326 (1-480, translated) 160 residues
MAIKLSIDLS DATFAELSAV IGYAHQLGVD ADEKLTFEGT VLNIEFDGDL QFDDVFDAFD
EAEIELDNPR EDGPIYADDL IDEDEDYRAQ TKSQINDEVI NEIRDGISSF VDGIVNGLGQ
GRRGGRYGDF GGPRGPRGPR NDGPFGPFGP FGPGYRGPRF

> aaRXA00334 (1-336, translated) 112 residues
MAKLDDNVQI ETVNVSFEAG GRTNWHTHPV GQNIIVLSGL GIYEAEGEPA RLLEPGDVVF
AAAGVRHWHG AVSGAPMFHV VVNLKGIDGE TVDWEEPVDE EHYRSVSAEL QR

> aaRXA00336 (1-471, translated) 157 residues
MAKPKRSWLD GPEIPADFDD PDAPGRWPGE KLGLPQEGAG SLSSVARRIG GVCVDWGVSW
VIAIVLSNFT DVLGDVATST LIIFVILGWL TGWIFARTPG HAVFGMGLAR VDAEERVGWW
RALVRPLLTI LILPAVMVDA DGRGLHDKAT GTAVIRG

> aaRXA00337 (1-525, translated) 175 residues
DVEGGVEKHS LSTADIAARA HAHMKSHDVL GRQTTPPQPE GGVAARLGGI AWTMIHKQML
SRDTKGLDIT VLSTIPEGVG LGENSAMDVA LALALYRENI EEAPTKARIA DICSQSAFMF
SETSVLRARH TEALRGETGH ISVVDYADGS VTQAPHPVSR SAGLSAFVAA AQTET

> aaRXA00338 (1-783, translated) 261 residues
VGITAGRPIA TRLLGGMDKW GVHVLPKDAA YLKKMLFDAG AGAIGDYREC AFEIEGTGQF
RPVEGANPAE GDVDKLFKSL ELRIEFVAPR NLRARLTSVL REAHPYEEPA FDIVEMHSAE
SLENATGLGR VGELPEPMRL ADFVQQVANN LPVTEWGVRA TGDPEQMVSR VAVSSGSGDS
FLNDVIKLGV DVYVTSDLRH HPVDEYLREG GPAVIDTAHW ASEFPWTSQA QEILQDKAPQ
VEVDVISIRT DPWTMSARAV N

> aaRXA00339 (1-717, translated) 239 residues
MKLDPSLHKT LLQLATTLRT QNANSAPKTT PEQEAVDKAV AELSRNRDAA SAGQMAVDDM
ENEILRIQSD ERKLRRRKKD GQDALGAETD EERRRDLNHD VYTAKSRIAD LMSELQEAHN
EIHALRNNRD LAQSRVKDTE RKVADARAAA EAAAAATPEG EDPAVVIAHL EEKLPSEALA
EFHAQRLENG VGAALFNGRS CSGCAMVLPA TGISDIRNTP KDEVPQCPEC GSYLITDIS

> aaRXA00342 (1-429, translated) 143 residues
VADAPGAVKQ GAQDYAQLLG IQSGHIVQEI GWDEDSDTLI SESIEDAIGE ELLDEETDEL
CDVVLLWWRE DDGDLVDGLV DSIRSLAENG RIWVLTPGIG KEGALAPGVI SESAQLAGLV
QTKAERLGNW QGSCLVQRGN KKP

> aaRXA00344 (1-579, translated) 193 residues
MSFGLGLSVL FIHLYPGRSS TAFSLLTGQI VGVSSSSLWI LVAVTVIVVS AVVIFWRPLL
FASADPIMAQ ASGVNVRFIA VAFAVLVGLT TSQSVQIVGA LLVMALLITP GAAAVAVTAN
PVKAVVLAVI FAEVSAVGGL LLSLAPGLPV SVFVTTISFV IYLVCRLIGW LRGRGAQRDE
DAYRRRQHDH HPH

> aaRXA00349 (1-1059, translated) 353 residues

EKILDELEQS PASYGFPVAL LGWPMMGGAV AVLLGGGCQV SLIAFITAFT IIATTSFLGK
KGLPTFFQNV VGGFIATLPA SIAYSLALQF GLEIKPSQII ASGIVVLLAG LTLVQSLQDG
ITGAPVTASA RFFETLLFTG GIVAGVGLGI QLSEILHVML PAMESAAAPN YSSTFARIIA
GGVTAAAFAV GCYAEWSSVI IAGLTALMGS AFYYLFVVYL GPVSAAAIAA TAVGFTGGLL
ARRFLIPPLI VAIAGITPML PGLAIYRGMY ATLNDQTLMG FTNIAVALAT ASSLAAGVVL
GEWIARRLRR PPRFNPYRAF TKANEFSFQE EAEQNQRRQR KRPKTNQRFG NKR

> aaRXA00353 (1-693, translated) 231 residues
VGRSFTNRTF DPLPFMVVYP DGVDQHWNDA RLGLDENTRH LGIDDVGFFV KLATHLGNTY
GIKRIFIVGY SNGGQMVLRL MHEVPKMLSG AATIASNMPV AENTLPQVKT FKTHPVPYLA
MAGTADTFSP YEGGDAGIGR EHRRGVGMSA FDSAAYIAAR NGLTEHRHDV IDDVVSIDTW
DGENPVEFWT LNGIGHLVPS GKTYPEFLGP STTSVIAAEE IGKFFDGVRR R

> aaRXA00355 (1-126, translated) 42 residues
IAFGRAAHRM KQQGQSGAFT VLEVAPYLLS PENLDDLIAR DV

> aaRXA00362 (1-960, translated) 320 residues
DEKTGWTAER SATLVAGNSG LGVALPPNST MFIILALPAA AASSASQVYI ALACGGAYAV
LYRLAVVFYW TRKDKIPATP DDQRVSFGEA MKTGWRSPLI FLGILIPVIL TIGPLSEWLK
THGVGESGVK SMSIIVWVPI LITAIALIEG RKRIANNMAH FRVQISKDLP QFATVGISLF
SALAAANIME ELGVGPQLSN WLDSMDLPKS VMVIIVCIMC IVVATPLSST ATAAAIGAPA
VAALAAVGID PTVAIVVILL CTSTEGASPP VGAPIYLSAA IADANPTKMF VPLITYFVVP
MILLAWLVGM GFLPVIVPTG

> aaRXA00373 (1-339, translated) 113 residues
MDIQQLDAET TAWKDSLLRA AQEAGFHFEP PKLFEDFETM VEQYKQAAAS DPDIDVTDIQ
QMWGIVVGEY LREKMGMEWV VITDDYGTDL AILATAPNGD HVYSCPIIVV GKR

> aaRXA00375 (1-501, translated) 167 residues
MFPSPATGGD DINRRPLNEP NADATTIPTA LKVVFWMLFA TAAFMIFTGL VMYTAGYTGP
DDVDESYKAV VVNNQEFIGG INAFAGVVIA ALTSQLPKGG KNPRRLLLAI MLLVLLTDLL
SFATRAGGFA LAIIAVLLAL EALLMFRPAV NDHIDRNHMA RVMNREK

> aaRXA00380 (1-621, translated) 207 residues
VRLTKLAATI GCVTLSGLAL VACSSDSTAG TDAVAVGGTF QFHSPDGKME IFYDEADRQQ
LPDIGGDSLM EEGTQINLSD FENQVVILNA WGQWCAPCRS ESDDLQIIHE ELQAAGNGDT
PGGTVLGINV RDYSRDIAQD FVTDNGLDYP SIYDPPFMTA ASLGGVPASV IPTTIVLDKQ
HRPAAVFLRE VTSKDVLDVA LPLVDEA

> aaRXA00387 (1-813, translated) 271 residues
QNDPETWEDY ELRVNHPLRI EGDRVYLQGH GFAPTFTVTW PNGETRTQTV QWRPDDPTFF
LSSGVVRFDP PAGMYPDLYE RRQNQLAIQG LFAPTAEWEG DNNELLTSSY PAMRDPAVAI
DIYRGDNGLD TGIGQSLFSL DSSLMHSGVL QKIERVNLQI GDTVTLDDGT TVSFDGASEF
ANYQISRDPT QNWVLVTTVI SLVSLVGSLM IRRRRIWVRF YPQENGTTRV ETGGLARTDR
AGWGGEYEKF HRELLGLKEE DEDEEYFDHD D

> aaRXA00390 (1-405, translated) 135 residues
MSTTREIAFL IARILLGVIL IAHGWDKFAI TGLEGVTGFF DSLGIPAAGI AAIAAAVVEL
LGGILIILGV FTRIVAAFVA IDMLFAALFA HVSSGIFVTN NGWELTGAIG AGALLLIAVG
ASAWSIDGVL AKRKA

> aaRXA00392 (1-864, translated) 288 residues
MWVGYAVRQI ASVFLTLLRM LPLAARNRVA RGRIPETGDV VISLTTHGKR INYVHFTIES
IARGHVKAPI VLWLDKPDFD APWPATIKRL VARGLQVRCS DGFYGPHTKY WNQFREIHGT
GVRVATVDDD MIYPEWFLQR LLFIGDLRMD AVVAYRAHRI ELRDDRMLPY VKWSAADTSK
ASFLHFATGV SGVLYPVTFI DYVVSQGDVF LENCKRADDV WLHACALRSD HPIRQVYAQP
RHFAVVPTTQ VGALVVGNTL MGGNDEQIAK VYTDEDVAKL VAASKNED

> aaRXA00394 (1-333, translated) 111 residues
VSESNTPNLQ THQAPELNPE LQKAARKNVL IYGLARLLLF VVLTLIIHSL ALLISAPVPL
VMSAMLALIV AFPLSMLVFS KLRMNATQAV SQWDAQRKAH KEWVRSELAD R

> aaRXA00395 (1-300, translated) 100 residues
VGRLLLIILV IVAIVLLWKA FKPSTWKRNA EINQGQAPRA VKGPDDDEEF LWNIEKNRFK
QRRADEAAQL EEEERLKRAR ERYAKPESSE EGPEKPTEDS

> aaRXA00396 (1-471, translated) 157 residues
VTEIAENLQR LGIELPDLPA PQYSYVPFNR QGNTLYVSGQ ISRTAAGDIL AGRVGEDATL
EEGIHAAEVA TINLLARIHQ SIGLDNVAQI LKLNVWVNSS DDFIQQPQVA DGASQLLEAV
LGEAGKHART ALPTNTLPQG ALVELDAVVA VTEAAEV

> aaRXA00397 (1-540, translated) 180 residues
NLHSSNRMLF PGPPVDFPIN AETRCIQLDA GVAVKKDGVV LGTSDMARSL PRTAAGQEAY
EYFFKVVREG IIGQLRPGVI CADVHEATLD YLSPQLPRMI DIGMLGADTD FNTIYRKRNV
GHLMGKQESF ANELRPGYKH ILHHGSYGAA EIPWRYNGVA IGTEDLWYIG ADKTYILSQR

> aaRXA00398 (1-681, translated) 227 residues
YLPEPFTVED YTARVEGLEV AGGAIVSGSF QAFDQGYLKD ALAVLGPGYV GVTQIPADTS
DQEILDLDKA GVKAVRLNLK RGGSAGLDDL ETLARRVHDL AGWHTELYVD ARELDELEST
LASLPAVSID HLGLHRDGLP ALLRLVENGI KVKATGFGRV ELDPTEVIQA IMAVDPTALM
IGTDLPSTRT KRPFEDADLD LIAETVGEDH VDNVFWNNAA AFYLGDQ

> aaRXA00399 (1-315, translated) 105 residues
MSHNDSPNFA RRALNWLRQG YPTGVPRHDT FALFYVLERE LTEEDLNELA ELLIAEGENN
GLHDNPITRE KIGKLITHVH SQPPEDEDID RIQKKLQAEG FPTRN

> aaRXA00408 (1-447, translated) 149 residues
MNPVSPKLTT ARYLTRIPWL LISAIVFGVL GVFVSSWFYA GVIVVAVILI WQLWLIPQQV
KRLGWLETSD ELLITKGKLW HTFTVVPYGR IQFVDVTAGP LERAFGMKQV QLHTASASSD
STIQGLPVAE ADALRERLAI KARERMSGL

> aaRXA00409 (1-1413, translated) 471 residues
MSSLEGFRKV HRATPFLRIW TIIVAVLAAF AFNSGASVLS FIWGVVTGEY GFAVLPILLT
VGGAVIVVAL AWIITGIWWK AVGFRITNEE VQLQRGVISK DLRTARFDRI QAVDLVESFI
ARIFRLAEVR IETAGGSDSA ISIGFLRKSE AEALKRELLD ASQHSVATTP AGVPAEPGVG
ETVVVESAGD VLVPQIPVQR TLASTALSLA TIITAIGIVI LLFVPFGVSI AVPFFVGMVP
AVWNLIDKSW QFTATQRNDV LHVSYGLANR RKQSIPLGRI HAVKLKQPLL WRLVGWWTVT
VPVVGYGDTT QGGTSKILPV GSKELALKVL EAVGPLNSAD IAESADPSHM SRPQYTPPVA
ARLLTPVDRT RQGVTLIGVA GAPGAVVVHE GRFMPRMSVI DTSHIQELTL KHGPIQRILG
LSTVVFNLVQ GPVGMAASDL SAADGKELLN ILRNRKLPAL ESAPLGQNSL D

> aaRXA00411 (1-675, translated) 225 residues
MNEMILAADW NRLGPTFQTA IIDTLLMVII TMVVAGLLGL VVGLLLYTTR AGGILKNKVI
YTILNVLVNF VRPIPFIILI AAIKPLTVAV MGTSIGRDAG IFVMVVAAIF SVARIVEQNL
VSIDPGVIEA ARSMGASPMR IIATVIIPEA LGPLVLGYTF LFIAIVDMSA MVGYIGGGGL
GDFAIVYGYR AFDNEVMYVA VLVIVIIVQA AQLLGNWLSK KIMRR

> aaRXA00416 (1-327, translated) 109 residues
TSHYANPLGE FGNRNAFIED LAIRSWNELA DPQQFSDALN TSPWTIPEVF IFRGSIDDPD
AGWKYDVAED LYPNNPNVRF RGVYFNPESF DQMWQTKQVG PFVVVTHNE

> aaRXA00418 (1-1065, translated) 355 residues
LASYLSPTAL VVAVLAIPLS ATRLYLDGIS VDQGFRTQFL TRMADDIGLS DMNYIDMPTF
YPAGWFWLGG RLANLLGLPG WEAFQPWAIV SMAVAASVLV PVWQRITGSL PVATGIALVT
TCIILAMNSE EPYAAIVAMG IPAMLVLASR IAKGDKFALA GGIIYLGVSA TFYTLFTGAI
ALSAVAVCIV VAAIVQRSIK PLLWLAVLGG GSIVIALISW GPYLLASING AERSGDSATH
YLPLEGTQFP VPFLASSVVG LLCLVGLIYL VVRFHNNEVR AMWVGIAVFY AWMGMSMAIT
LLGNTLLGFR LDTVLVLIFA TAGVLGIADF RLASVYQLYP TQITERTATH LTNLI

> aaRXA00422 (1-423, translated) 141 residues
MPTNYARDNV ISLASAREQR SGKPEPKPEL TLIVRATNVQ ADGEVHRQIG LNSAMSLDEL
HNVLNIVFGV GGEQSPWRFE DQFHQPSAPD TNLGELLPEP GDFLFYFWGL WQFNLQCVEM

YPRDNGTPRA LCIGGSGGLG D

> aaRXA00423 (1-453, translated) 151 residues
MTYPVLSVLD NSGDHNIIWH VQTYPAALPT GAWIADEQQL TDLLKDTVVF LTPGSTAPEN
APVATIEGVR VDVDKQVAEY NKHGIRLPSL GARTVEAQYR GEPEAEAAWR TAMELVEIAG
GWLEIEAKRR ARKALAEAFG AEVQPLPLDT E

> aaRXA00424 (1-471, translated) 157 residues
LQVAAGSALI GAGVAVNDYV QSPVRRAISY GALALSGATV IAMGQDPTGE RSIIAKDSAT
MVDQIRQEIG DLGVTPGPES DVDAITERGP LVTWLLLAVF VVAFFTLAYF SMRMDVAVMR
RIAKFFEKRG ASRPFTCTGM VYAAFIYAIC ELEARTK

> aaRXA00425 (1-225, translated) 75 residues
MFERFKKAKA PEVHIAAERT NLPLNDFMTR LFAQELPLLD STSRSEVYRL LREYDGPTIS
SQEEIPAEIR ELMDL

> aaRXA00428 (1-633, translated) 211 residues
MPGLVLSTNV AHIQQDPGGD DRISGINKLP VATGIDVFIP GPNYGDGSGV VGDAIGDSLH
HGGAHKAIYA YSREELDFFD PTYRNGYFGE NLTTSGIVLE DLLINQQVRI GTTLLEVSIP
RRPCRTFAHW LDIKGWLKTF TQRGLPGSYF RVIEEGHINP GDPIEVLQAP DHDITMSMAF
RAKMGNKDLA RRVVAANCLP ARYHEELLKL I

> aaRXA00429 (1-402, translated) 134 residues
MKTFNPTMIA GLIGVLYFVL LTLIFSIQDM ELAAEIAFGI VTIVGLIAVW DNFRDRNNST
WKTWTGLVGG LLIAVPGICL LVGNLVLLAV DGNPSTMVNT LLSVAGIGAI FLLPIGIIMC
LIAGFNRYYA ALKV

> aaRXA00430 (1-411, translated) 137 residues
MSLKTQAFRF ILTGGLSAIV DLGLLSLLQL VFGLPVPVAR TISFIAGTTT AYMINRRWTF
QAESSTSRFL AVVALYGVTF LINIGLQTLC SALFENWGWN EAVAMVVAFV IAQGTRNGHQ
LHRPKNHHFP SEVRYPS

> aaRXA00433 (1-525, translated) 175 residues
MDVLKIAIIA AAMIGVPVLV VFLIVFAVHK LAKEVPRSGR RPGIGLGLLL GFVAGLIVWF
VWLSWGGYYE NEFGQMQGPY RPWQVVACGV TMVAVTVILG LWTRWTASGP FYSALGGASG
FSFAWAMDAI PQDETGLSAF GLVMVIVGVG AGLNVVATLT SIGATIWNNR LPSNA

> aaRXA00447 (1-300, translated) 100 residues
MLGSLWRFAV RTAAGAVALW VVIKLIDGIS LSFPTTPLYQ DGQHDNLLTF LAVAAIIVVL
NATVKPVLKL LGLPLTIITL GLFSLVINAV IMLLAEYVSD

> aaRXA00451 (1-492, translated) 164 residues
MNTEEDGLSF AVTATLVEGK WQVREFEDHF SKLSTSINAV RSLRSEGPAF ALLCVDDEYF
VMVRPTPSRV FLFLSDAPMA VDDDFAAAVM DELDADLPDI NPDDLDDIDP WPEGDFDILA
DLGLSEEVLS VICDDMDLDP SEQLLRIAEE LGFDNDLARV VGFD

> aaRXA00455 (1-618, translated) 206 residues
ILLALFVAVF LISNITATKG VEIGPLVTDG AFFLFPISYV LGDVLAECYG FKSTRRAILT
GFGITMLAAL SFYISIWLPG ASFWEGQEAF EATLGLVPQI IVASLAGYIV GQLLNAKVLV
AIKKRTGEKS LWARLIGSTV VGEFVDTLLF CAIAAPVIGI ATAPDFINYV VVGFVWKTLL
EVILMPITYA VIRWVKRREG YETFDA

> aaRXA00457 (1-1080, translated) 360 residues
MTIALEHPVL HSTAIALPAR FQASYTTRLV AVGVDKRPSD FWLETAGTPQ AGDVVIARVT
AINNHKRVET PESRKAILFE GVLVMLAYGH RYAADQFLAH VPEDLGPCHL VAAGGIAGTV
TALHDRVDEP TEIEPLGLLT NARGTVNVRD FAAFDNPLKV EAPNKRAQVI AVLGTSMNSG
KSTTLACLVN GLAAAGQKVA AGKITGTGAG NDRMIYHDAG AHSVIDFTDF GYPTTFKLNF
AEIRALSVNM INVLADSGAD TVIVEIADGI YQGETSRLLR DQVFQEAVDH VVFSAVDALG
AKAGVQELQA AGLHVAAASG VMTASPLATA EAAAVLEVPV VPTFDLTNPE IVTAVLTDHA

> aaRXA00462 (1-1380, translated) 460 residues

MEAIAILFVI GAILVVAVIV LGIFFLTSRT WIKVAAADEA LIVSAKKKGE SQVIVHGKAV
VMPITQTHQK ISLRSRQVNM QVTAQSDDNV TLNVEAVALV KIGSEAEFIR RAAQRFASSD
KEIVRFTQDQ LEGVLRGVVA QQTVTSLMRE RKKFSEQIAE TVIPELEKQG LILDSFQIRG
ITDDVGYIKS LGAPEIQAKK QAAEIAETEA ARAIAKSRIA NQEADLVEQT QLDANKAAAD
AQVGEARAQA MQAERLADEK ARLEVLRQQA ENKQIELEAE VNKVADAERY RRKQEVEADT
FEQTRRAQAQ VEIAEAEATA AKVRAMAEAE AVRLKGQAEA DAIKAKAEAY RENQEALLAQ
QAMEILPELM SNFASGYANI GSMTVLSGGE GSENSVGSRF AGEQALGLKS IIESVKQTTG
IDLAEIIQGR AAGHAQGSAQ GAAIAEALSR DETVEDRSEK

> aaRXA00463 (1-822, translated) 274 residues
MQTTTGETSI SNETSFNASR ETSLTALGFL DYLDEEQRAA LLGEGLDIST LTWANQVTAL
RVLESLFNEH AYELVSAVIQ HVAQEPGDNP HHFLKFSPEP STENSWELTL DGPTVGLKVT
FDPDGQITFK DAHLGLSPAE VVSVTEALDT SYSESQIKKA AEQLVGSLNP TQQAALQGSG
LRGAQLTEEQ KTLFLKMTSN WIDLANGDSG SEQQEEIADT FSDTYIIWNE QKDGSAFFQM
KGPELDFSYK ESVPENAELS ARGVPNIQTS FQSP

> aaRXA00468 (1-819, translated) 273 residues
VKVVDAQVVM GPTHAMSGAA VGLAVAQILP AEWGGVTTAT EAFIYAGLAA GAALLPDLDS
PQATVSRSFG PITQVISRFT ENICQTFVNV TRGRKDKHCN NGHRTLTHTV WSAAATGAGA
TALIGAYGKP AVIGLLFFFL GLAIRGLMPE WSKNADWLLV TGASAALAVG VWNYAPESSF
GIVLGSAITV GSLTHLAGDM ATKAGIPAFA PVIPLKGKRW WNLKLPKFLS IRANGPADKF
LLFVFSVAVI IQIGLVSSGN MSTIMMNLLS PAL

> aaRXA00469 (1-1176, translated) 392 residues
MSTFQEPHHN QGFIPFAQPG YEAPTPHLAT GTFQQMWQTR PARIPAKQGG HAKVAGVCEG
IGVRYQIDPV LIRLFFVVTG VFGAGVAAYL IAWLCMPRYS VPVSPIEALW TPGHTKDRNH
GWWLVIAFFM FSGVLSSGAG GISGPAAAIT YLCLLAMWWA LHKKQPLPPR GLLTTEFTVS
EDATMKNEDL YPRPQPDLST ITPVEGYYAP FAQQTPEAPH WDPLAQNQYN TWDVQVPPQK
PQKKRHVWPW IVGGVVGTGV VMSALAGLFI SNIDPIYFED DPGIGDVNLI PTNDELLSSY
TSGVGEMNLD FSNLTQLDQE QNVQITSGIG EVMVTLPDDV PVSLSCSAGV GTARCDVGDL
AAHNADLEGP MLNLVVNSGI GDVKVEFADQ ND

> aaRXA00472 (1-861, translated) 287 residues
VSSVATKTTS TLPEMNSAVS ADGVTITIDS AFTTDSVEME SLDRPSGDIQ PEMSREDGIF
VVVETTIKNE SGADMDITCA STGSTVYAEI STNQEAVYQP IRDLFLIPGN PECNHNLGSG
FDAPMTWVFQ IPKDATAERF GFTHSELGDG KLTWIALNDL SNSEPATEST MRDEAAIDPS
TPQQTPVQET VISQNTIETP VAPAPAVPAY GASCPVSMLQ QPSQAADGSA LVCIYAGTPN
PIWVYGPEPL GVGTATPGGA CEGYEAGGQD ASGNIMMCSG GQWVYGP

> aaRXA00473 (1-765, translated) 255 residues
LWGDGTPVSL PDLSGLSRAE RIDALRSRMS TMGAAVPKFE PSVEESAEQK QDSLAEKQDI
VAVPSAFSDL FPGDGLPRRA VTQLVEQPLV VVDFLAHITA QGGHAAVIGW KDLAYAGVID
SGGVCENIIA IPNPGTEPLN VAAVLCEGLD VVVYKGPEIS LSPTRARPLL GKLRQGTAAL
VMVGTKVSSP ALSVDAEITD YVGIGAGSGR IRGVEMQVRA VSKTHGVRSG KVLISRPQDA
ALLEPEQPTT LRAVP

> aaRXA00474 (1-1578, translated) 526 residues
MALWFPDWPV QAVHLDEDAP AHNKPVAIAA HYRIQVCGVA ARKRGVRRGM KVRQAQAVCP
ELEVVDADAD RDARMFEGIV ASLGEVASSV EVLRPGLVAV DAGAAARYYG SEDIAAQMLI
DAALRQGIDV FAGVADEITT AVIAARANGG TVVKREASRS FLQQQPLGVL AAEEALGCEA
EVVRALADLG MRTLGELAEL PVEAVATRFG NAGLRCHNIA RARHDRKVAP PITHADWEVS
HVPEEPILRV DAASFVARNL ASRLHQLLSK GGVVCQLLKV TADFSTGDTV SRIWRTGEPL
TEQATADRVR WQLDGWLTAR GVHSDDPNEH DGITALWLIP LECVPPDMAS GGLWDTGRSQ
QHVARQVIER VQSSLGVDAV LQPVPAGGRG VEERIHFVPY GEKRDAIRNP AGSWPGKIPG
PLPARLGGGI NHPASQVTMI DTEGQRIYVT AEALLSSSPY ALSWGPARYL ITGWAGPWPV
DDRWWEKNGT KYARLQVVGR AVSEERQLNA WLLMWKDNKW RIEATY

> aaRXA00475 (1-660, translated) 220 residues
VTQGYGVCMI VQPTSHSKHR ARLKTLAIVG ASALTLAGCG TSNSTTNDAS SVTQTMSATA
DGAQLSNEAS TGPTALGEAD VAMKTLRPDA PAQLMVTDVR IGSHSGFDRV VFDLTGTGTP
GWFIDYTSNP TQQGSGNTIN FTGDTALNVN IDGTVYPFDL GLEDPEIGTV DGSGSIVTQV

VSAGTFEGRS QFVIGLNGKH RYSVTELQDP HRLVVDVLAQ

> aaRXA00476 (1-861, translated) 287 residues
MTLRCSDVNV EPLPGTAKTG SGFVLLEHAG SWSRDVLDGG TFDPELTDQL KRHLKASGMG
LQLIRKPGRE GRNVEKHNLF LVFAEASIIE HLVVDAPADV LDLDLSGPGK NNAQRMDDPM
LLICTHSKRD VCCAIKGRPL AAAVEPQFGP LHVWEASHTK GHRFAPSMLL MPWNYSYGLL
DEAETVQLFQ GALDNKLFLP GNRGRGTLDA RGQVAEIAVA EAFGEAVAPA SLQVEFEDDS
VLVTHPDGRT WVVELERIEV DGVVSSCGDQ PKTGKAWVAR QVTELIG

> aaRXA00481 (1-585, translated) 195 residues
MLNMQEPDKI HPAEPTLRNI YDVKTSDPKS ELVDRSGMSE EDIAQIGRLM KSLASLRDVE
RSIGEASARY MELSAPDMRA LHYLIVAGNA GEVVTPGMLG AHLKLSPASV TKTLNRLEKG
GHIVRNVHPV DRRAFALMVT DATRGEAMRT LGKHQARRFD AAKRLTPQER EVVIRFLQDM
AQELSLNNAP WLNTE

> aaRXA00485 (1-2043, translated) 681 residues
LPQGPGEIAV TTAPGAPEVG EHVSIRLSQN TEDTEVLVVG VVEPAAQETL GGAPFVVASP
DALMEWNSSG VRGEFRVATS DPASLEAASF SDATVVVASA EGHVDKLADS YLGQRDRYFL
LLAAFVAVAA AVAFLVVFSA YSVLTGERVR EFGLIRSVGA STPQILGSVI FEAGILGVVA
AGFGAPAGLM AARLLADNAA RFGIRVPIDV IDLPSSTMWL IAGVGVVMSV IAALPAVFSV
CRKSAVESLS TPAISRTSPW FGALWLLLAG IVGAGGMWAY EATSDYRGMR SVALSIAGSG
ALVCALLIAT AVLVPWLLHV FSRIVGGTVP TLQLGLAFAA KQKSRSAALI AVILAGSALS
SAVLHGQAHI GTHLVAVAKG MGGTDMMVTA LDGEIPAGML EEISSIDGVK TAIAPATTAV
ELEDSGNFSV LMLAEEDGAS VMRAGDTGAP AGGLVLGRNS PDQDAYPAGQ AANIIVADTP
TQAEIFHSDN YFSMIDPALA TGPSTTRNVL ILLDGDSNQA PDNATAQAVR KTISLFDGRY
SITEGFSARQ NTFELVSRIT TMSTLLAIVA LAIAAVGLIN TVALTISERA RDRYLLRTIG
LTSTGQILVM AIEMIALSLP AAIVGAVSGG FLGRFVASSA TNTAATAPLQ VDILGGTVLA
MVAGSVLCAL IVLANKRRRV V

> aaRXA00486 (1-702, translated) 234 residues
HAIMAAVDHA RAAVLDSLSE VSGTLKVTSF QSLLFTLAPK AIARLTEKYP HLQVEISQLE
VTAALEELRA RRVDVALGEE YPVEVPLVEA SIHREVLFED PMLLVTPASG PYSGLTLPEL
RDIPIAIDPP DLPAGEWVHR LCRRAGFEPR VTFETSDPML QAHLVRSGLA VTFSPTLLTP
MLESVHIQPL PGNPTRTLYT AVREGRQGHP AIKAFRRALA HVAKESYLEA RLVE

> aaRXA00490 (1-903, translated) 301 residues
MNKQSAAVLM VMGSALSLQF GAAIGTQLFP LNGPWAVTSL RLFIAGLIMC LVIRPRLRSW
TKKQWIAVLL LGLSLGGMNS LFYASIELIP LGTAVTIEFL GPLIFSAVLA RTLKNGLCVA
LAFLGMALLG IDSLSGETLD PLGVIFAAVA GIFWVCYILA SKKIGQLIPG TSGLAVALII
GAVAVFPLGA THMGPIFQTP TLLILALGTA LLGSLIPYSL ELSALRRLPA PIFSILLSLE
PAFAAAVGWI LLDQTPTALK WAAIILVIAA SIGVTWEPKK MLVDAPLHSK CNAKRRVHTP
S

> aaRXA00491 (1-420, translated) 140 residues
VYWVLATSAN RVEDVNFDAM MPRDPFADDP NDPASFITDD DPYDHPEPLS EEERIHVSQD
LRLVMEFKKV LGPRGIEGVF FMCEDCEEFH YYDWDIMAAN MRATLAGELS PVHEPSAQPN
IDAYVPWDYC IGYLDGLEAK

> aaRXA00493 (1-324, translated) 108 residues
FEGDQKVGVR ALATALGKPA YWIASNAGLD GSVVVARTAA LPNGEGFNAA TLEYGNLIND
GVIDPVKVTH SAVVNATSVA RMVLTTEASV VEKPAEEAAD AHAGHHHH

> aaRXA00496 (1-402, translated) 134 residues
MTRRLHGGEQ DGQEHVKGQL KQLFDDDAFL TDLSRGVDPS EGDDALAGLL LDLTKEAQEP
PATMPDWSTL LPGILDQDQD LPVESTSDTT VMQASNPATQ EFAPVSISDT PNTATNSADA
DESATVVPLA ARRE

> aaRXA00504 (1-246, translated) 82 residues
MTYGFLVNTD LTHRAIDFDL ENAAKFLGGA DDGRVAVAFQ EDGTLYAALY SASAKDEGAA
ANPVASLGRN AAATGDGSFF SD

> aaRXA00505 (1-252, translated) 84 residues
DLIHMDAYRL LGEDSEDADP IGALDSLDLD TDLDLAVVVA EWGGGLVEQI ADSYLLITID
RETAVQEDPE SEARIFHWEW REGR

> aaRXA00506 (1-1341, translated) 447 residues
VLDFLAANPL IALVVILAVG LAIGQIRVFG LSLGAAAVLF VALVVSTANT DIVIPMIVYQ
LGLAMFVYVI GLSAGPAFFS EFAKKGWKLT IFMLLLLATL IGLAWVLIKS LGLDAAIGTG
MFTGALTSTP GMAAVVELIE GIDPSLASEP VIGYSLAYPG AVLGSIVVAA VGAKLLKVNH
REDARKEGMI TAPLVWKGVQ LKPGITGRVG DLPRLAGESI IATRIVDDPH THRLADPDLP
ITEGMELLIN GTEEAVDRAI KALGEERETK IEDTELIYTR LTVSSPEVAG RTVAELDTVA
HGFMIARIRQ GDSEVVPKPD TVINYSDRIR VVVAPGRVAE VRRFLGDSEK SLADVNLLPL
AIGLSLGLLL GAIPIPLPGG TTMSLGFGGG PIIAGLILGA LKHTGPLTWQ MPFHANRTIS
TLGLALFLAG VGTSAGAGFR AALTDSS

> aaRXA00507 (1-855, translated) 285 residues
VAENLNKHLS KLSKRGPHRV LVGDMNYAGI PGKIYTPAEG DGIPGVAFGH DWMKSIKYYH
QTLRHLASWG IAVAAPDTEN GFMPDHKGFA SDLESSIQIL GGVKLGSGNV TVNPACLGVV
GHGMGAGAAV LSAANRDLVR AVGAIYPAKT SPSAIDAAFA VKAPGLVIGS SSLGLFESGE
PAKLAANWAG DVCYRESEKG NQQGFSEDTM FKLVAGIGSP QTGAQETVRG LLTGFLLHQL
AGEKKYKAFS EPDAEAKKVV SYFGQELQEH AFPKDTSPFA FLNEK

> aaRXA00509 (1-177, translated) 59 residues
LVDVELSAAL LDPPELPELA VLELEPPEEA AAEEVAPPDE PPEAALHNGF GSVSQTCFP

> aaRXA00510 (1-531, translated) 177 residues
VEKPVEKTPE KPVEKPVEKQ ECEEKPDPDP EXMQXXEPVE CEPTPKPETE PEPKXDTHAX
XPGTPTPIPX ARXLRIXXXX XQGXXGTDSX XXXXXESEEC APELNDVPEE SDLIGQLIKG
AIGIGIVVVG VGLLVNFLEQ CVPVIEEVPV PEPEPIPEPA PQPEPTSVKP PESELDK

> aaRXA00515 (1-480, translated) 160 residues
IESYIAQDDN APTAAELQVR LDAIESGEGL AMLLPDDPTL ADPNAEESFK TEYTYDEAKD
IISGFSSDPA SDVLSQLQQA ATTGTRTAEI RAEVFADRTD DYNESQTALK EDFQNCIDAI
DDARPIPLQY ILIGGAIALA VIVLGIRAWT NSRKQSKHSQ

> aaRXA00519 (1-513, translated) 171 residues
MAGGGLFETG AGGSAPKHVQ QVQEENHLRW DSLGEFLALA ESFRHELNNN GNTKAGVLAD
ALDKATEKLL NEEKSPSRKV GEIDNRGSHF WLTKFWADEL AAQTEDADLA ATFAPVAEAL
NTGAADIDAA LLAVQGGATD LGGYYSPNEE KLTNIMRPVA QFNEIVDALK K

> aaRXA00520 (1-198, translated) 66 residues
MRFSRVLPAL LITTAVSIPT ASAATLTGDT DKELCIASNT DDSAVVTFWN SIEDSVREQR
LDELDA

> aaRXA00527 (1-1764, translated) 588 residues
VIATSDVREI SSEGIVARVS VNGNIEAART TTIYTSLTVP VANLPVAVGD RVAADQVLAE
LDASALQRQL DETDANNARA AMANRNSIAQ SQQAYEQSRE LLDSGLSPEI NSARSSLRAS
SQAYQDAIRS FEAKQRDVDG GLDSTMVAQS DALKAAREQA DAAEIERLRA DFGLLNNDRS
NLNDVIGLLD ERESLASAES ELAQARAAGD LEAVAAAEAK VAGLEQSIAS KTSTWPSQDQ
TYLQSYTALE EAERRVASTT EALEIAERIY IDSLGKVDSE LAAAQRAVAE AHSAQQDAAL
GLETAQLSTQ HQLEAQSSAI DAALGLASVD NEAATRSTSQ LRMDINNTTV RSPYSGIVSS
VQAAQGQPAA GALLSVADDS ELKITANVKE AEISNVTIGS RVTFTTPSTG TKEFAGRVSK
VSPIAAAASA PATGEGAAAG ATTTNTDVTF PIEISVTGDR EGLNLGGSAR VRIVHEIAPH
VLTVPLEAVY KNDDGKDAVL IISDDNKVEE VEVKTAESDD FDIAVSGAGI SEDARVLTQP
GNYRGLIGET VKLHADTVEQ AAAPFSPAAP FDPAAPAVSA KQTVGQVI

> aaRXA00528 (1-1089, translated) 363 residues
MSTSTIRVAI AGVGNCATSL IQGVEYYRNA DPSETVPGLM HVKFGDYHVG DIEFVAAFDV
DAEKVGIDLA DATEASQNCT IKIADVPQTG INVLRGPTLD GLGDHYRATI DESTAEPVDV
VQALIDAKAD VLVSYLPVGS EEADKFYAQA AIDAGCAFVN ALPVFIASDP EWAKKFTDAG
IPIVGDDIKS QIGATITHRV LARLFEERGV RVDRTMQLNV GGNMDFKNML DRNRLESKKV
SKTQAVTSNI PDGPLSGKVE DRNVHIGPSD HVQWLDDRKW AYVRLEGTAF GGVPLNLEYK

LEVWDSPNSA GIIIDAVRAA KIALDRGIGG PIMPASSYLM KSPPEQLPDD VACERLEAFI
IEA

> aaRXA00529 (1-543, translated) 181 residues
MKLKWIAPIL PVLALAGCGN YVNVESQGKS GISHDEDGNI SVHMYICGDN AVDELILSGG
FYDGPPGTNN PALGMLKTSN PESGYVVVNI ADPAPWEVVE PINLPTEQGK YIIANPRLVD
KGWPIPFAKE KYMPSVSTSV GMLEGIDPGL VMRDMYTEST HVFGTAEDFV EAGQQWCEDY
F

> aaRXA00530 (1-1281, translated) 427 residues
MSIGFDRDLY IKMQSQHINE RREQIGGKLY LEMGGKLFDD MHASRVLPGF TPDNKIAMLT
ELKDELEILV AINAKDLERK KTRADLDISY EEDVLRLIDV FRELGFLAEH VVLTQLEDDN
YQALAFKQRL ERLGLKVAVH RVIPGYPTDA RRIVSEEGFG INEYVETTRN LVVVTAPGPG
SGKLATCLSQ IYGDHQRGIK SGYAKFETFP IWNLPLEHPV NLAYEAATAD LDDINIIDPF
HLAAYDTKAT SYNRDVEVFP LLKTMLEMLS GSSPYKSPTD MGVNMVGSAI IDDAACQEAA
RQEIVRRYFK ALVDERREEQ DDTISARIAI VMSKAGCTVE DRRVVARALD VEESTGAPGC
AIELNDGRLV TGKTSELLGC SAAMVLNALK ELAGIDRSVD LLSPESIEPI QSLKTQHLGS
RNPSPAH

> aaRXA00535 (1-717, translated) 239 residues
MWWAGMSTAM LAYFLQTVAL GFGTLLVVQP VLVLSLMFTL PLSARFNGYR LRRTEIFWAT
LLTVAVGIMI VLGRPLPGNP HPPLDRWIPV LLVGVAVMGG MWLLAEYVLK KDKALILGLV
TGALFGYVAV MSKAAVDLFV HQGITGLILN WEGYGLILTA LLGTIVQQYS FNAGELQKSL
PAMTIAEPIV AFSLGYLVLG EKFQVVDWEW IAMGIALLVM IVSTIALSRT STMPAGSKR

> aaRXA00540 (1-243, translated) 81 residues
VARVVVNVMP KAEILDPQGQ AVHRALGRIG VSGVSDVRQG KRFELEVDDS VTEADLKKIA
ETLLANTVIE DFDVVGVEVA K

> aaRXA00546 (1-690, translated) 230 residues
PVLGGIFQWI CGIITRFLYP VVDVIPFHTL PESGLYFIVT ALALAFFWVL VIRMMVELTG
NRVWDTVLVA ASPLVAVHAF TNWDTPAIAA VIGAMLAVKR GNPLVAGVLI GAGTAFKLWP
LYLLGAYLVL AVKNKNLKPF ITMAAAAAVT WLVVNVPVMI AYPKAWNEFL RLNRERGAEW
TTIYQVIDRN LPINLNDPVL LNVLSFGLFG ASVCGHFDPW AQGAAHSPSR

> aaRXA00547 (1-414, translated) 138 residues
VAILILGLKV QRTPRVAELA FLIVAAFLLF NKVWSPQYSL WLVPLAVLAF PQWKVLFPWM
VTDAMVWPIL MWHMLGTDNK GLPHEMLDLI VISRDAFIVV MISRCNPADA RTTCKSGDGC
ARRARIVGRA LRRKRSVE

> aaRXA00549 (1-396, translated) 132 residues
LTENGETPYE GIILGQYESR PLDMASAMAT IANEGVWHRP HFVSKVETVS GEVLYEFEDG
DGERRVSEKV ALNLLKAMGP IAAYSNGNAL ADGQVSASKT GTTQLGDTGA NKDAWMLGAA
PQLATAVWVG TA

> aaRXA00550 (1-321, translated) 107 residues
MYGSNSPATI WKQTMDNALE NSPLETWDIA PALGYGNPPV PEYVWTPSPN IATNDPEGAT
EEAPVEDPNA VIDTPAVDPT APAEETGNGQ VEILPGLTIP GDLLGIG

> aaRXA00552 (1-717, translated) 239 residues
FKWSEGGAED FPKLSVKVRD EIVAFGAPDE LKVDENGVVG GGVHLKPQQV NELVEARGDE
VVFFDGRNAM EAQIGKFKDA VVPDVETTHD FIAEIESGKY DDLKDKPVVT YCTGGIRCEI
LSSLMINRGF KEVYQIDGGI VRYGEQFGNK GLWEGSLYVF DKRMHMEFGE DYKEVGHCIH
CDTPTNKFEH CLNEDDCREL VLMCPDCFAN VETRHCKRER CAAIAADFAE QGIDPLVTS

> aaRXA00553 (1-321, translated) 107 residues
MSIVKINAIS VPEGAGEELE KRFAARQNAV DSAPGFEGFQ LLRPVSGEDR YFVVTQWADE
DSYNAWRDAE KAKGGHGQGA HGSDKKPVAS GASLLEFEVV LGSTGAK

> aaRXA00554 (1-471, translated) 157 residues
MNTQPEHPEN DLVDEADFSN RPRIYSDDPD SLADAPDPAL EHEKNKKSSR QALIYLLQVP

LVTFVSAYVL AWVSRLQGGP ICDAGEAVWI CSRAAELWWP ITTSVIAFGG MLGSAWILYD
KYRNYLRWRP WMGVLWILIP FSMLWGTSVL TLSILGH

> aaRXA00555 (1-891, translated) 297 residues
SGGKRSEQND AVFEFAAWLA RTSDINVRGI TTFIRPWPSS SISKLGGKYH KWYKNLDSYY
RSRTIKGLKE AGVEKSQWDD DVSVFVDGPS ESTLLTHAAE EFEADLILLG SDATAPKGRF
LASSTADALL HSSPVPLGLV PRGVKLSKKG VTRVNYAFTN ESDDFEQGLR SSAELATNWN
VPLRILAFSP TGITSAPTSR SLDISTELSS EWRELTLAML DRARDGVLTD HPNLSVSSET
GSGWGWSGAI DALRWKKGDL LCMGSHRTDT LSRVFVGSET MEIIRNSPVP TIIYPGL

> aaRXA00560 (1-237, translated) 79 residues
MRIDPLETRQ AVLAVKDWIE GEGDVKKPGR AALAAATRLS VRLLAQHAPG NSVEVRVPPF
VAVQCIEGPK HTRGTPPNV

> aaRXA00563 (1-2739, translated) 913 residues
FYKDLYARSA RGTAALWIVA ANLSSYSDID AIINWVGSEQ TTTVNGASKL VKPALVPTLL
FPFAAPRVSG SMADAGPQAE SQMRLLLWSV ERLIAGLAPL GSSINVGHRL HVVIPGSPNR
GRFGGDGAYG ESKAALDAVV TRWNAEQAAW GAHTSLVHAH IGWVRGTGLM GGNDPLVKAA
EEAGVETYST QEIAEKLLSQ ATSTVREQAA SAPITVDFTG GLGESDLNLA EMARAEAAKA
ANAPVVEAPR TVAALPTPYR PVVQTTPDFA GQVTQNLDEM VVIVGAGELG PLGSARTRFD
AELNGSLSAA GVIELAWTMG LIHWDEDPKP GWYDDSDDAV AEEDIFDRYH DEVMARVGVR
KYNDMPEYGM IDNFAPELTT VYLDQDLTFN VGSREEALTY VDSEPELTFA SFDEAAGEWK
VTRKAGSAIR VPRRMAMTRF VGGQVPKDFD PAVWGIPADM VDNLDTVALW NIVCTVDAFL
SAGFTPAELL ASVHPARVSS TQGTGMGGME SLRGIYVDRI LAEPRANDVL QEALPNVVAA
HVMQSYVGGY GQMIHPVAAC ATAAVSVEEA LDKIRIGKSD FVVAGGFDAL SVEGITGFGD
MAATADSAEM EGKGIEHRFF SRANDRRRGG FIESEGGGTV LLARGSLAAD LGLPVLGVIG
FAESFADGAH TSIPAPGLGA LGAARDGVES RLAVALRSVG VSADEISIIS KHDTSTNAND
PNESDLHERI ASAIGRADGN PMYVISQKSL TGHAKGGAAA FQMIGLTQVL RSGLVPANRA
LDCVDPVLSK HSHLVWLRKP LDLRAKAPKA GLVTSLGFGH VSALVAIVHP DAFYEAVRVA
RGAEAADVWR ASAIAREEAG LRTIVAGMHG GVLYERPVER NLGVHGDAAK EVEAAVLLDS
RARLVDGVLR AEG

> aaRXA00564 (1-405, translated) 135 residues
MKYNVDVSRE SEDWLATVTN LEGVSTWATT FANLDRNGRE AIALAEDLPE GAESSLTISW
SVPTDSHPEL DTAIQIAQQR RYLVQAQQDL EPKVRSAISA LTQAALLGMT AGRVSPTHNP
GSRAISLDQV SGVLN

> aaRXA00573 (1-651, translated) 217 residues
MLVRPCGEQA VIIDLLAEDA EAVQGSILDA VLALNRSLVG MQVPGIIDTI PAAQTLLVTF
DTKQITPNRF AEIVDSIALT PAAKGAAELT DTIEIPVVYD GPDLETVAQH TGLSVEEVIA
THSGTVWTAA FGGFAPGFYY LIPQTPLWDI PRLESPRTKI PAGSVAVAGE FSAVYPQQSP
GGWQLLGTTE IPMWDVDRWQ PSLLKPGDSV RFVQVKK

> aaRXA00574 (1-879, translated) 293 residues
MSFKVISTGP QAIFQDRGRF GFASAGVGTS GSFDRLSAAR ANHALGNDPN ATVVEILLGG
FEVEALHTTS IVFTGTEAEV MVRTAGGQSK NATTNTIIDV AAGERIRVEP ATYGMRAYFA
ARGGFAVKKT LGSASTDLIS HMGPCPIEPG DVIDVATDIA DSQWWPKLRQ LPTLWKRMPT
ETLTVIRGPR DKWFTQESLN NFFTQVFTVS NDSNRIGLRM HSSEPIQHRV EGELKSEGMV
RGSIQIPPGG NPVVFGPDHP VTGGYPVIAV LTSRSCDRSA QLLPGDKVRF KLL

> aaRXA00576 (1-672, translated) 224 residues
MLTLSFITGT EPGKWFTRFR DRTHHGGLET LDSDDALGLM LAGQAQLALT RLPDARIDAS
LHVVTLYQEQ PGVAFPKDFF LSAEEGAVDL ADLDGEIINW SMPDSGEVDA AAVRDALQIV
AANVGVVIAP RPLLKVLSKK LVEHRDIKGG TETSIALVWK KDEDSEEIQD FVGIARGRTR
NSSRQQTVKL SAREKTLAKQ ARRQGEKPKT PKRPQARKRP GKRR

> aaRXA00577 (1-348, translated) 116 residues
MKPQTAAKKL GLFLPATPEE FQTGALTHQE FKNLQENPPE WLQTLRREGP HPRPVVAQKL
GITIAALKKN DMDKPLTTAE IKALLENQPE WLRTARTQLA EGRETAKKET EETTED

> aaRXA00578 (1-723, translated) 241 residues

MTYLVWDGAT LVEGALESTP TVVDSYLAKD HRVVRWDLHE QRFATSVDVD PWDFLHAVRE
AIPRQGSWFP KVEWHGDDLF AVNIRPAPTL RKATSLWLSE DPDPRTQPTI KGPDLDVLAH
LRSRANDNGC DDALLISADG FILEAANATV VFWADPQTVI VPRGDVLPSV TLAATIPLWE
KAGITLRYQN IRHIGFPAWC GSSLHGWTPV VSWGRGLGKI AAAKAPSVKP WNEKLRPTIF
L

> aaRXA00582 (1-519, translated) 173 residues
MSDYIVAFES AYGSTKQYAE SLAQRLGVDA LNFEQACAEL AANPTAAIVV LSFVHGPSHP
GAKFITDTDL SGHRVALCTV GMTLDDVVQK KDGAARSLGN KADDVTRFYL PGRLNYSELS
TAHRTTMWTI VNMLKAKPLK NDNDKMMINT FDTDVDRVDE SRLDAVEEWA RGL

> aaRXA00585 (1-318, translated) 106 residues
VIDLSPVFNT AAGVYNDTNA IILAQQQQGG PLGPEFGKAS PVGLLLIVAM LVAILVLGWA
FHRRWSRMNR RRIFAERNGL DPFDIEGVRK AMAEAGLNEK SKKGFL

> aaRXA00586 (1-882, translated) 294 residues
MKHVSGLRLM AIHAHPDDES SKGAATMARY AAEGNQVMVV TCTGGERGDI LNPAMDKPGI
LDNIFAVRQE EMAKAMEILG TEHRWLGYED SGLPQGDPLP PLPEGCFALE DSDKVTQDLV
KILREFRPHV IITYDENGGY PHPDHLKVHE VSMLAWEKSG DAAYAPELGA PWEPLKLYYT
HGFIRQRMEM FHDLLIEQGK PSPYTPMLER WKANEADVMA RVTTQVPCER FFDQRDDALR
AHATQIDPAG AFFGTPVEVQ RRLWPTEEFE LAKTRVKTSI PEDDLFAGIT PDAE

> aaRXA00587 (1-483, translated) 161 residues
MSTNSNSPSN ASGASNIPNT QRPASRYNSP RPEAAAGRNI SGKIIAVIGV LLVIAIVIVG
ANFLKNRDAQ TVSGQMGSFE RIDDDTFRFE VDVTRDDPSQ VAYCIVTAKD YSHAEVGRRE
VLVEPSDHST VRISTLIPTR EPAVSGGVYG CSTVIPSHMN L

> aaRXA00589 (1-363, translated) 121 residues
MTTLSRKFFV SATTALAAVA LVACSPNEID SELKVPTATG VSLPSKNVSA TSTATTDEDA
PGYIDCVAAP TQQPAEISLN CAMDIDRLTD ISWSEWDTDS ATGTGTRIVT AANGQETETE
D

> aaRXA00595 (1-330, translated) 110 residues
RNIAAWIAIA AIIIASLGAL LSMIRVWREV FWGGAMHQRG VSPQLRISPA KIAPALSLII
LSVGMFIFAG PLIDATLTAT DGLLNTDAYQ QAVLGENAIG VPSPSYQGGN

> aaRXA00597 (1-270, translated) 90 residues
MTAFGIVTTV GICMFAFSLL SALVLILRTK DFLTRVVLSD MVFYSMIAIY LIWVLNNPTS
IAFEIALLAA VLGGVLPTLS MARIISKGRR

> aaRXA00598 (1-318, translated) 106 residues
MTIPEIIVSI LVILAGLFSL GTAIALWRAP DPLTRANLLG TTVGVSIPLL IIALLIHTWS
VDGFNPNNFI RAIIAIIGVW VIGSVGSYYM GRAIYGVTVV DNRRSK

> aaRXA00601 (1-291, translated) 97 residues
MRFKSVAAIA LSTAMIRGGT ASVANAQQVS PSSTIEIPQE FVHTVQNFVP GMTYGDAGSA
IQSTAGSVAL NSTAGIILPI VLPFLGLGAV GSAALSA

> aaRXA00602 (1-753, translated) 251 residues
VQKTQEIHSS LEVSPSKAAL EPDDKGYRRY EIAQGLKTSL AAGLGMYPIG IAFGLLVIQY
GYEWWAAPLF SGLIFAGSTE MLVIALVVGA APLGAIALTT LLVNFRHVFY AFSFPLHVVK
NPIARFYSVF ALIDEAYAVT AARPAGWSAW RLISMQIAFH SYWVFGGLTG VAIAELIPFE
IKGLEFALCS LFVTLTLDSC RTKKQIPSLL LAGLSFTIAL VVIPGQALFA ALLIFLGLLT
IRYFFLGKAA K

> aaRXA00604 (1-291, translated) 97 residues
MRMKSIAAIA IATAALAGGT GVASAQEAGS TAGSSNLSSG IQLPQEATDL LSFLPAAQAA
QVEGAIQSTA GFFAVGLGST AIGSTAVTLG IADLLSS

> aaRXA00610 (1-864, translated) 288 residues
MEPKKPVTYK ELAHEYSRRT FNKLFTKITG FVYLKNDLIN DPNLVTQALL KRCPEGVLRG

YAALKQRGYQ LLDDQWMPII SVSGDLNRRD CSRGEILRRI EPENTLLSGN IRFVNDVQAI
QDVFDLHSLN DFEDQVALID HLIRQRPELF QELIQEPKLK KHTQYANPFA ESPQESRLRV
RLHSLGYHGF IPQIHVEYDG QSYFLDLADP LWQVALEYNG GWHYTSEQRE KDSHRKNALK
SAGWDVLEVT SKTLQNPNSW NNLIQQINSS LRRKQAQRRR RLPMQTVG

> aaRXA00611 (1-1476, translated) 492 residues
MSAAASRSRN ILTALLLLVP LIAGTIYASA MGLDVSRAWS SADEVTGAPA ASVATNNQEL
IEARRAAGEA GAQAGFLTSG TEELTSGTQE LIDGAAPLEE GVSAAADGAA QLHDGLIQLQ
AGTGQMGTGA TEIADGVQNA VEQLGGLVVV QQQLLGALNE ADKQLASSKI PEAEDLRKQI
TEVRGHLENF GISVEMTDQL DQLRSGTRDL ANQLAVPGYG FHDGIYSATN GAAELSAGLQ
ELEAGVGTAV EGFTALDEGA NRLDSMATLN EEKTSAVQRA LPVPQVPAGT IEGTADEERT
SALAPMYAFL ISALVMLAGA ALGWATLKNK WLMAFAVIGV TAIGGIILFT VALGISIGAL
FGALGILLLA TVVAGILSRI LLDVLGTTGA IVVSVLGWVA QAAVIGHVWS VTAVSDIALV
WRVVAGMMPL HYPTFAVTSI GNGGSAAAIW MSVAVLLAMG AIGAVALRKP KAVAVEVEEA
VDADADQAAS ES

> aaRXA00613 (1-453, translated) 151 residues
MSELKDKIRA DLTTAMKARD KDTTGTLRML LSALTQEETS GTKHELNDEE VLKVIAREIK
KRRESAEVYT ENGRQELADV ELKEAAILEG YQPEQLDDDQ LNALIDEAIA EVGGEADMKK
MGQIMKAATA KAAGRADGKR LSTAVKSRLS N

> aaRXA00614 (1-915, translated) 305 residues
VNKVSTIAKT LTFSSAALLG AGIATAAWGY SELKKFELKT VELPILKPGT LRGKKEFRLL
HISDLHMIPG QETKKAWVSA LDSLSPDLVI NTGDNLSDEK AVPDVLRALG PLMNRPGAFV
FGTNDYWAPR PVNPFGYLFG KKREVSHIDL PWRAMRAAFI EHGWQDANQK RLEFQVGSVR
LAISGVDDPH HDLDDYTEIA GAPNVDADLS IALLHAPEPR VLAQFEADGY QLSLSGHTHG
GQLCLPGSKP IVTNCGIDRK RATGLNKFGD MWMHVSNGLG TSKFVPFRIF CRPSATLIKI
TEQAL

> aaRXA00616 (1-345, translated) 115 residues
MKSLPRFAPL ITILALLVLV AIGGSALANN RATPNVESEP ATVNQRSTPT TSAYEPPATE
SPEEPTTQIQ ESPVQPPVPA PAQIPQAPQV PLNYQYYDDD WDDDDDDFDD DWDDD

> aaRXA00617 (1-1083, translated) 361 residues
MTAVVFLTLA SVVIITRSVL LSEVTNTANS AVEQEIEEFR RFAAEGIDPT TAQPFESGHR
LMEVYLSRQI PDENEAIVGI FPGELIQVDY SQLSGAHPLP LEHSDPLISE IRQTTLNSGV
FSDLERGTTH WGKVNFQTAS GEADGEFVVA FFADNLKDQV NGQIQILILI GTGGLIASIL
IAWLIAGQII APIRKLSSVS AKISNSDLTW RVPVEGRDEI AQLARTFNAM LDRIEIAYND
QRQFVDDAGH ELRTPITVVR GQLELLATTP PEEQARSIEL ATTELDRMSR MVNDLLTLAV
ADSGTFIHAH PTDVTDLTID IEDKARTISD RILLVDAAEG LVSLDEQRVT EAVLELFGNA
L

> aaRXA00628 (1-408, translated) 136 residues
MASVFTKIIN GELPGRFVYR SENVVAFLSI EPLTYGHTLV VPVAEVDRWT DLPQNIWSEV
NEASQLIGNA IRTAFDAPRC GYIIAGFDVP HTHIHLFPTD KMADYDFRNA MAADATDPAK
MDEAAEKIRE ALDGLV

> aaRXA00631 (1-1455, translated) 485 residues
MENPYVAALD DENQEVGVKK EAEKEPEIGP IRAAGRAIPL RTRIILIVVG IAGLGLLVNA
IAVSSLMREV SYTRMDQELE TSMGTWAHNV ELFNFDGVRQ GPPSDYYVAK VFPDGSSIIF
NDAQSAPDLA ETTIGTGPHT VDAASGSASN TPWRVMAEKN GDIITVVGKS MGRETNLLYR
LVMVQMIIGA LILVAILITS LFLVRRSLRP LREVEETATR IAGGDLDRRV PQWPMTTEVG
QLSNALNIML EQLQASILTA QQKEAQMRRF VGDASHELRT PLTSVKGFTE LYSSGATDDA
NWVMSKIGGE AQRMSVLVED LLSLTRAEGQ QMEKHRVDVL ELALAVRGSM RAAWPDRTVN
VSNKAESIPV VKGDPTRLHQ VLTNLVANGL NHGGPDAEVS IEINTDGQNV RILVADNGVG
MSEEDAQHIF ERFYRADSSR SRASGGSGLG LAITKSLVEG HGGTVTVDSV QGEGTVFTIT
LPAVS

> aaRXA00637 (1-753, translated) 251 residues
MTDRTIGEAA ELLGVTTRTL RHWDSIGLLQ PSWRTTTDYR LYTEDDVERA LQILIYRAAG
IGLKDIAEVL DQPDSANQHL RRQRELLVEQ IGQLHRMVRA VDEILGKDAI SVKEKIEIFG

EDLPKYQEEA FQRWGDTPEW KESQKIQEKM TKEDFQRAKD EHEGFVEKLI DASLRGIAPG
SAEGNELALA HRASIGQWYT VSANKQVILA RMYVEDERFN ETYKGHASYL LTLIEALAQV
EGVDLENVEW E

> aaRXA00646 (1-441, translated) 147 residues
MQRRARREVG LTEVLDRLPE QPKKRGRIPF TRADLDNDAE LAEFETLEAI AAGDTLITGA
VFTGTLEGVA WEVQVDVLVR NPDGSYMPVM VSNHRVARPD PHKTMQGIAV TRLGLGQPLE
LKATLRHHTI DGYRLTLALM GLEEAGA

> aaRXA00647 (1-633, translated) 211 residues
MGIFEAIRAA RAKTKAEIKA AEAKVKTEAK NKAKLDLKRE KLLVQQEKNL LKVEEKGLKK
RNKHELKMAK NILEQKRQGR LNKDKVKRWA GTARVLTPLL LPIIYRLSTE ARDQVVKGRA
RRAGVTAEQL SQFAGHAAAL KARIQGVRET AKNSSLPAGF VRDVEERLNE LEAAANNSEF
MSPQQRNRAH QSISRDLNQV SDQIQDRLLD K

> aaRXA00649 (1-456, translated) 152 residues
MSTDPIAALE YESTIFARHR NQYTGQAGTN AGVLDSSGYN LLTLLQLRGP STIGELSAIT
GLDASTLNRQ TKALLTKGFV ERIPDPDGGI ARKFHPTDLG NELLNEERTS SQEKYAELLS
DWPEEDLRTF VKLLEKLNKA VETRVGKHWP RP

> aaRXA00652 (1-549, translated) 183 residues
MRRTLPTILA ASIMLTACTP AEPEATPETT TEAAPEVITD GLPIDAMPAV ERTAQTACPY
LGTDWVADTN GQRVTGYGTD ERFSTPSCVF YSYPEEPQLT VIVRDMATTD DAIAVVDWAA
PIDSTEPAEE PAGWSGGRRG GNDTSGALYA VQNGPTAVIV FTNQDQSLKA QLIAEEVIQN
LGL

> aaRXA00653 (1-765, translated) 255 residues
VSVSQVVGEI LLTVGILALL FAYYEAYWTN VESGKLQESA GQKLDEDWNE ARVNPRQKLT
PELGEAFARM YVPAFGSDFN FAVIEGTDEE DLLAGPGRYV DSQMPGEAGN FAVAGHRVGK
GAPFNDLGNL EVCDAIVVET YNSWDVYRVM PMSTNGADRA AEAADCFNEN QVSRMAEGDY
VNVSGRSITT PDRIDATYPT PGVFDTAVRE GSEALLTLTT CHPQFSNAER MIVHAMLVEE
IDKSSGERPA ALEEN

> aaRXA00654 (1-1266, translated) 422 residues
VLDILIYPVS GVMKLWHLLL HNVAGLDDSL AWFFSLFGLV ITIRAIIAPF TWQMYKSGRT
AAHIRPHRAA LREEYKGKYD EASIRELQKR QNDLNKEYGI NPLAGCVPGL IQIPIVLGLY
WALLRMARPE GGLENPVFQS IGFLTPEEVE SFLAGRVSNV PLPAYVSMPT EQLKYLSTTQ
AEVLSFVLPL FITAAILTAI NMAMSMYRSF QTNDYASGFS NGMLKFMIVM SILAPIFPLS
LGLTGPFPTA IALYWVSNNL WTLLQTIIMM VILERKYPLT DDFKVHHLEQ RDIYRAKQKE
KRIFLWTRRK NRALMILTPW NASTLHATNV ELTKTRTAEI NEAKQARKEI ANKRRETQRE
MNRAAMQRLK QRRAEVKAKK KGLIDASPNE DTPSENEETK LSSPQVEPTT TAEPNREPSQ
ED

> aaRXA00656 (1-261, translated) 87 residues
MLALGWITWI IIGGLAGWIA SKIKGTDAQQ GILLNIVVGI IGGLLGGWLL GIFGVDVAGG
GLIFSFITCL IGAVILLTIV QFFTRKK

> aaRXA00657 (1-903, translated) 301 residues
MSTEDIVVVA VDGSDASKQA VRWAANTANK RGIPLRLASS YTMPQFLYAE GMVPPQELFD
DLQAEALEKI NEARDIAHEV APEIKIGHTI AEGSPIDMLL EMSPDATMIV MGSRGLGGLS
GMVMGSVSGA VVSHAKCPVV VVREDSAVNE DSKYGPVVVG VDGSEVSQQA TEYAFAEAEA
RGAELVAVHT WMDMQVQASL AGLAAAQQQW DEVERQQTDM LIERLAPLVE KYPSVTVKKI
ITRDRPVRAL AEASENAQLL VVGSHGRGGF KGMLLGSTSR ALLQSAPCPM MVVRPPEKIK
K

> aaRXA00661 (1-690, translated) 230 residues
MNPITELLDA TLWIGGVPIL WREIIGNVFG LFSAWAGMRR IVWAWPIGII GNALLFTVFM
GGLFHTPQNL DLYGQAGRQI MFIIVSGYGW YQWSAAKRRA LTPENAVAVV PRWASTKERA
GIVIAAVVGT LSFAWIFQAL GSWGPWADAW IFVGSILATY GMARGWTEFW LIWIAVDIVG
VPLLLTAGYY PSAVLYLVYG AFVSWGFVVW LRVQKADKAR ALEAQESVTV

> aaRXA00662 (1-1269, translated) 423 residues
VSTIPLNRLA VIAAIIGVGT GLFVAALNWS AIGVERLVYG ADHLHNYNPV ANVSPLRLSI
TVIVLSVVAS WAWFFVHRTG PKEVSIVGAI RGEKMPILET IASAFLQVTT VAAGAPVGAE
NAPRIAGALV GERFSRWLQL DIDAKRILVA SAAGAGLGAS FHLPLAGVLF ALEVLLVEAS
TRTVVIAIIT TTAAVATTGF FVQTPDVFST VPLTESPWML LAAMVTGVVA GMCGHWFSAA
AHKMAQASPK GVKILWQMPL GFVVIAAVIY FFPETLANPR WLADSMLGDG LILSTILLVL
VLRTAMFLLA FRVGMVGGNL IPAFALGSMV GGVVGAVLEP ITNVPIAAFA LLGAAAFLST
TMAAPLFGLI AAVEFTDMEA QGYLPIFLAV ASAVLAVRVW SVIAKHELRA IPITYASWTG
ELK

> aaRXA00666 (1-387, translated) 129 residues
MTAGEAIAHS VRAAQIAEEH NYARFWVAEH HNSEGLASSA TTLLMGHIAG HTSRIRVGSG
GIMMPNHSAL HVAEELGTLE AIYPGRIEAG LGRAPGTDPM TARELGRASS LVDDVLSTIV
SLQNYLDTP

> aaRXA00667 (1-585, translated) 195 residues
MIALKSMSNR VVQKPKMKAP LPIRDGLNPS RVRLPLDAAP IRAIDFVEYL ISTQRHRNPA
DNAEALQARF DADLVVNHYG EPYAPDTMVQ PDDDIWFYRM PAAERPIPYK IHVIHEDDDI
LVIDKPPYLA TMPRGRHITE TALVKMRVLT GNNDLTPAHR LDRLTSGVLV MVKKPELRGA
YQTLFARREA SKTYE

> aaRXA00668 (1-792, translated) 264 residues
MLTTLWIAVL VFTVPGLVVS WVSGLKVPWA IAASIPATFG IYGLSAWLLG LWEMRFDLHS
VVISTLVFAA VALVWRLFFV GGWLVRRRKA RIRRQTLADE ERAENAEVSA GEPAESSTNE
AAESESETSE RRGIWRVIFD YMRDGGILDH RWLLPAAGAI TGAWLIIDRA VDLLLSTEHG
LGDIVQGWDV HWHASTVRFI DETGIASSTM MGQLRNIETQ QDLFYPSAWH AGAWVLSDVG
NLTIVEATNL TGIVLSGLLL PLAV

> aaRXA00674 (1-750, translated) 250 residues
IFAAALAFMG MFQLHPAPST IVIMVLLLWW LLKLVVVPSQ KVKGWKAGIG IRLKDVGILA
ITGIIGVLFM LPQVISGSEQ TEDVLSYSAE EQVTRSESWL VSIFMETRHV DFFGNIDIVP
VLVFAAIGGV VALVWRGNLW APVFYFASVA LTANSLKPFE EPWGDWLNIV GGLHYSTGHR
LIMPVAMFTF AAAGIGAAAV IRLICLGPIK KFTTVSGVVS VVMALVVAVP LQTWAKDFVE
EGSETTILAP

> aaRXA00676 (1-747, translated) 249 residues
MAKNSRIRYS ASIKRAAAAI LTAAATSVAL IAVPATASAQ DLATGSSQIQ TDAREGAWAT
RNTIQDQLAS IGPAALPVRA AVDNAINGMF PGLVDEKVAA EQEAARAEAE REAAAAREAE
AARVAAEEAA RFDRGSCPAI ADVCVDIDGG RTWLQENGQV TYGAVPVSSG GVGQETPRGT
FYINRKVKDE ISYEFGNAPM PYAMYFTYNG HAFHQGNVAT TSAGCVRLNT QDAIYYFNNV
GIGDMVYIY

> aaRXA00678 (1-735, translated) 245 residues
MTRSNLPAWE QADPSVHASD PRAITFAEDF GIRPIPAVGP IDTTAICATP SNGFEQLWKA
IEPETRTRAN DIHLPIVVAY AERLCDAYPL ADRELVLVAA ILHDTGWAHV DESRIISEGF
SGNWRKAAIR FEHETEGCTV ARRVLPSLGY TVDFVEHVCD IIDGHDTRQV AYSLEDALVR
DCDRLWRFDR AGITASSSWF GMPVSDYVDR LHREILPELI TEAAHQMATA DLNRAKALLR
TDAIR

> aaRXA00691 (1-930, translated) 310 residues
MVEGNTIGCA DAGGNGYQTL LDAGFDVETT VQFPEFLCRI NDFPGPDVDD CMTASPAEAY
WSYWHAPLGG DEWEYSNLGA FLYYPKPGTV EAWYWGDTDR PGAIPVSKSQ AELGLDSADP
DYKIDFDPND FITTTPTSES PIADLGGDEE PTETTEAPIA GAGAGSARGQ AAEPTVEVNP
ENPNEVLVYQ DSEGNSITKG QYENLVAAAA AKTTAAVQAP AGAGEANSQP QATAVAEAPE
VDPMTTQVLM APAGQDGDVM AEGSTQQTYA TGTVDSSAQG WIIGLTLAVI SLVSASAVAA
WAIRRSEVQG

> aaRXA00692 (1-1134, translated) 378 residues
VALATGVSLL APQVVAAQDA SSDIQLATQF IEKEFATNGL IPGPVGTPDI GLNQDLLLSL
NALAPDSPEI DAAYAAIAPE LEGYVSVSDY IFSDRLAKTV AFQDALGVRD ADFIAQLVSA
VQENGQIKNL DNGEATTAIN NFSQAWGVLA LHRVGETEAA ERATEFLKTQ VCSDGGVQLA

SAIEPTCKTT DSDVTAMAAQ ALTLANGAQD PTTQATLDYL VTTMDETGGV KNTWTGVNSN
STGIVGSAFA LAGDEENYLK AREYLASVQF GEDADPSIQG GFAFTVKAKE TNTAISDQIR
RATGQAALGF AGGNYANDKL ITIANPVDPT PDPEIPTPPA DSEGSTGGIG GAGIIIAILA
ILAAIAGVMG PMMANLQF

> aaRXA00693 (1-483, translated) 161 residues
MWKEALEEFG SGPIHGSGYF ENYLPIDYSE AGFHHYLKER TDAADPSVPP PEGFVHCSYF
WIVDDDDVLV GFLALRHELN QHLLEVAGHI GYGVRPSARR KGAATAALKL GVHEAQALGI
DKVLLCVAGD NEASRNVIEK CGGVYESTIR GMRRYWIATD S

> aaRXA00701 (1-375, translated) 125 residues
LVGEPRSDSC GEQRGCEQSG VAEDESEAGS EGSSAEDEDK EDCFKACCAG TEWSDYGNHG
GEDAEHGYGF NVESVFTDFG DDSGQHEGND DRDVEGRLGF VGQEGFRVDD QRPEENHDAQ
NRKEA

> aaRXA00704 (1-513, translated) 171 residues
LTITFSRVAL TTLAVTATTL SLSTAANAQS SLLDKTLDAR QCIDADNVWV SVDYGADSEK
EPEGACATEF TDGVVALESA GFKLTFDESE MGKYMTGING VVPDWVETGT YWSYYSGEVA
DDYSVDYTYY EVGASNSEPE GGTVEAWVVG TGEETPALET LSETSAATGS S

> aaRXA00707 (1-972, translated) 324 residues
MNVQRKLLAI VGAFMAGSLA LGTPTAQAQS IGSSASQRTE VLRGLTSSAG IPDATAPEGG
AKVVVFGDSH ASGTNAPFDV DERGCLKGNQ SWPDQLQAQQ GLQQGELIDL SCNGASINST
GFHFSDEVRH AEALGAIGPN TENIFIQFGK NDQWGHSPIN LRYSVINCLF DAANGCGEKA
VAAGTMQDPS SVTGENYAQR MKPVIDYLKY YAPNAQITLL GYQEYTPRSG SEICVRVGGT
ELRKPDATNL VSYMNNLESA IFEASEILDV QHANLREATA GHSSCSAEPW VNGVLDMRVN
AVGGTWHPSP KGDEVTAGLL GTLM

> aaRXA00712 (1-549, translated) 183 residues
AAEPTTRTTV QSATEASTTA PVQCNLDPRT SDFGPYLAQS RTPVGELAGS ADSVVQVPDW
FYHFQMGDNG YDSCSKLSYV VLNGSNGDAE RSTGTGAAIA DVVVLFIDGH MVARPAPFEM
KTVESVTRVS DSEIQVVYGH AGRSTAEGVT DYFTFNFFVD NGVLSGRGDL PEHIDTHMRL
YLL

> aaRXA00713 (1-963, translated) 321 residues
MTKVAELDQE WSEVDDAELD AQSAGTSDSS STDDFADAEN TSENLGPIGP EPLPEPDGDV
PASGFQVQLD NFEGPFDLLL QLITKKKLDV TEVALAQVTD EFIAYTRKLG ETSDLDETTE
FLVVAATLLD LKTARLLPRG EVDDEDDLEL LEIKDLLFAR LLQYRAYKQV AEMFAQWQRD
ARRRYPRAVS LETQFANLLP PVSLGHSLKS FSELAAVVFR PKPPETVKTD HVHQVAVSVP
EQAGRILNTL KLAGIDHYLS FQLLTRDCTA SMEVIGRFLA LLELYKARAI ETLQEEPLGE
LKVSWTGIDV DPAVVAASDW E

> aaRXA00714 (1-561, translated) 187 residues
MATITRTDRL ILVPLTVELE DEAHQIYSDS RIWEHRPQAR HTNVRVTRDI IKRTNESWGK
KDLGPWGVYL RDRPSEFVGV GGVELIDGKV WDLKYRLRPD LWGNGYATEI SNAATLATKR
IDDSLPLTAR VTTNHPASFR ILEKLGLTPV WEGRRVGTED DPNEPDVRIY SDRPLSDEIL
EMLKQRP

> aaRXA00716 (1-513, translated) 171 residues
MESILLVVDT PVSARTLAGV LGIDVPATEA ILKEMAFELS ERGSGIDLRE TAEGWRYYTR
PENADIVEQF LLDGNQTRLS RAALETLAVV AYRQPVTRSQ ISAVRGVNVD GVMRTLQLRG
LVKEVDVDES TGAHRYGTTE LLLELLGIDS LDKLPDLAPL LPDVDSIDED F

> aaRXA00719 (1-1629, translated) 543 residues
VTDKHTMPGE EDDTVFVYHT HKGEMDVEGA FADEEELAPH GGWASADFDP AEFGYEDSDD
DFDAEDFDET EFSNPDFGED YSDEDWEEIE TAFGFDPSHL EEALCTVAIV GRPNVGKSTL
VNRFIGRREA VVEDFPGVTR DRISYISDWG GHRFWVQDTG GWDPNVKGIH ASIAQQAEVA
MSTADVIVFV VDTKVGITET DSVMAAKLLR SEVPVILVAN KFDSDSQWAD MAEFYSLGLG
DPYPVSAQHG RGGADVLDKV LELFPEEPRS KSIVEGPRRV ALVGKPNVGK SSLLNKFAGE
TRSVVDNVAG TTVDPVDSLI QLDQKLWKFV DTAGLRKKVK TASGHEYYAS LRTHGAIDAA
ELCVLLIDSS EPITEQDQRV LAMITDAGKA LVIAFNKWDL MDEDRRIDLD RELDLQLAHV

PWAKRINISA KTGRALQRLE PAMLEALDNW DRRISTGQLN TWLREAIAAN PPPMRGGRLP
RVLFATQAST QPPVIVLFTT GFLEAGYRRY LERKFRERFG FEGTPVRIAV RVRERRGKGG
NKQ

> aaRXA00720 (1-666, translated) 222 residues
MASPRRPQVA APRIKELRLT GLDNADPQDI ESNEQIESCR FNEAELSERD LSGAGFIECE
FLGLEAHETE LRRAQFVETR IERANAPSFK AARSIWRNAT ISDSRFGAVE MYEATVQALK
ISDSKLSFVN LRGASLRDVL FENCVIDELD LGQARAERIA FKDCTVHSLT FDHAVLSNVD
LRGLDIERIS GVESMSGTVI SSLQAADLSG AFARHLGITV ND

> aaRXA00722 (1-504, translated) 168 residues
LLPNGLLTKR ELVSIERSSH AFEQSVVILP TATLVAGLAA VSVHEPAQPL AVDSYAMAEA
AGSMRTATIR AATSAALTQA GACSKGDLLS FIGPEIALVS EELNDALSRT ALRLLDGSSE
QITLLIAQDR QSAFDEDVFR RGLGTHTDVE ITVYPATGME NLVEIGVE

> aaRXA00724 (1-648, translated) 216 residues
IGEEVLAGRQ AYVVCPRIEG EGGVLEIHAY LSEQVYPGLN VGMLHGRMDT DLKDSVMQEF
AQGEIDILVA TTVIEVGIDV ANATVMLIRE AERFGVSQIH QLRGRVGRGQ HDSLCLLHTT
FDEDSPQGQR LAAISTTTDG FQLSELDLQV RQEGDVLGTR QSGSDTKLRH LSFISDQKII
ERALIDATEL VAASRSRALE LVSDIAMINQ EYLEKS

> aaRXA00726 (1-141, translated) 47 residues
HEMGFAHEVA DQVVFMADGV VVEAGTPEQV LDNPKEQRTK DFLSSLL

> aaRXA00729 (1-642, translated) 214 residues
TVVEDYQEFT RGLFLGMVAV SILVPLGMMD MRDAKKRLAI VIPLFIICAM LGFFGTSFTS
APRTDPSLIF VFICAAIAVC ALVLPGVSGS FFLLAVGMYA PIMESLSNRD LSVIGVFLLG
ALTGVILFVK VLSYVLEHHR TITLTIMAGL MLGSLRALWP WQDGDANLLA PGDNAVMIFS
IIILGGAIVA ALMFAERVSS KNIDSETVAE EHPR

> aaRXA00730 (1-333, translated) 111 residues
HFVVFQKQLQ QADPNAEYDL DVLAFDIARV ANLLRWAAYT DLLLPAEARW FQDQLGIAAA
VSFGSWEEYG ERYVRGLQKN FKGGNKPYIE GERWLNTEAE SPWKTQKWIS A

> aaRXA00731 (1-2472, translated) 824 residues
LLFGLRWLGR SLRFAPLSLL MIVVMRGLRE VFGAEDPANS SLVDNLGLTL PWSLNDPHFL
TAGFSASTTT AALMSTLWII VFAVPSERIL GSLKFAITAA LIHITSIPLG IGIAHLIEEA
DLNRWGNNML ADVLLTPDFW VFGVAAFASA SMPLLWRRRT RLFLFTITLT LLLYTGTLAD
VTMLTATIIG TVAGELNRHR KTPGGRWLPG SLTVREARIM TAILVTAVAA GPVLAALNPL
THGPFSSATK LIWQPLVTEE HMHHLCHTDS TSDACQGALD QLQQHGVGPS VANLIPLILT
VVLAMGLSRG RRLAWILAVL AQLISIAVLM FQLTKLSADS TDLLWSVNAF SVIVPWLVAL
AVLVFSRRAF QVKIDTTRIS KSLGALMVTW LATAALWILA TLFLPHAFHP HPTLGLAFKE
LPFRYLPPTI ETVLSHQLFP RSPAGWAVFE WTGTLFWLVV AATLYHLLMG VPSNKAHEDQ
ENAATLLRSG SGDHLSWMTI WGGNTYWWAP ENAGYVAYRV KRGIAITLGE PILGPDSSVS
KAELAAQFEE FASNQGWIVA WYSVCEEFSK ERINAGHHTL RVAEEAVLSS ANADFKGKHF
QNVRTARNRA AKEGVSSIWT TWADLSAEMQ HKIITLSEEW VSDKALPEMG FTLGTVNELS
DPDTYLLLAI DEEEHLHGVT SWLPVYEKGR IVGYTLDVMR RDPQGFKSVI EFLISEAVVI
ARDHDLEWMS MSGAPLSTPP GVADDGTIGQ ILELLGRAME PFYGFRSLAA SKNKFHPEHH
GWYLCYRDEL SLPSIGLAVA ACYLNEFPLP NWLKKTATSA PSHS

> aaRXA00738 (1-288, translated) 96 residues
LLNDATTQVS HILGNAFTRS GLNAEYANLY GQALVGMVSM TAQWWLDERT PPKEEVAAHI
VNLCWNGLTG MEADPKLTPI SSAEGAIFGQ EKESEA

> aaRXA00739 (1-816, translated) 272 residues
VTATVLEPQP VQLSEQDVDA EIARMELKHN RHKTWRRRTM AVVMTLLISV GLSFGAFGNK
EREANAFASA IIAQVVGAMG EVAFEAICPS DGDTEMLLKC ITENLGEMHI IEKCLEAEDV
LKCFYDAKNE EQRKEQNLDK APDYSMYRMA SAMASFYGNG RAATAGVEEG GPNEFLDSED
AGLKVWEGIL SKAANGGNVL GYADAKHNED SGWFFGNGVA NNEKTYSYDS LADHAFQGPY
HFALFGATLS GLGFDSSKAE DSQTDFAQRK GM

> aaRXA00740 (1-579, translated) 193 residues
MLKNKTLALL AVSTLMFGLS ACSSDADGPD SSGASSSSTG SSSASADTTD SAAVDKDAQL
DTFMRSAVAD GSSAAVAVDN AVGKGFDKAD AQAAAERLGD GFQFAADYQA VGYLESWYFG
GARSEKLDEV RSDVIAHLSE LGFTDLEAES SASRITLGDY CDGVPEYCEL FFDGESPDLY
DMGTELDSYK PTE

> aaRXA00741 (1-933, translated) 311 residues
MTDSLLVSIR KGLIEERPLT ELLRACIFLG SDTNSDSLQE WAKNELNGYG SIDGIPEYRK
LKGPPVFAKI QAGNSIMSNM VLGPHNVPER ARKYFPEELH FDQPIQTLIE WSTRQDGINL
SPPNLLRVRD LHNDQYAPLN QILNLNVYLD NSYFSGIVDR IRTLMTSMIA DLTHATPLDE
LPSSEKVNAT VMKHIENNYE TTITQANGAV AIGNSAKAVQ KGLSVDDLLK IMQTINPEKF
DLGEARAEAE ESIQSIADEL KKESPNKGFI QNAFEKLKEL SIKAGDKAFT TMLNLVGKQI
IENIPQLVSG G

> aaRXA00742 (1-1650, translated) 550 residues
VNVQIKGRKV NAKAADLNSY PVSVVDLRGF VTLAGLLFFV VDIDKKSNKK YPKYVLLKPF
YIHDLLSKAK PGQKTISVRL KRLPSDEDRM EAIIALALAS RQEKIVENPS NYLYENMESI
TVKSAEPLNR DKLAVYDGSS PDHSIIIRTG DGIEQFVNAT VEIIPPNMQF HQANYNVSCN
GVVYDNVLHR NIDDEHIELK IGKGITLRLQ KLAIDAPGSV TVEFQDSLPE RLKDIEFFLG
VLQANTFFIN EEPVVLKINS NRTVADLKDE AGVLRQLVEI ANHFNIDPSL IRIGEITEKQ
FWQLDIVYRT AVKGEYVKNL EVKDETRLIL QPFGRWNLAL IAHPGDVAGE WTYHEVISKR
HHFAMTPSTD RSDSSIERVT PYELIDNRWL PSVLNLHLDK LVDFYSALEE TVDVDNLATW
MVLRLIKAAD SEQSRKTAFL IAAQALNDWL VERDREESPI YRLNGWQILY RQTGLLDSQR
TEIRSFRHNL DQTMHPDNYS EIMIGCALLL DDREEANFLL TQLSVDRRAV FNEWPIAQLM
TGALKEEIEK

> aaRXA00743 (1-423, translated) 141 residues
VQHLVLADVK YRELSALSVK IEEPSDRPEF KLGVTVNDKS KDEEGVPRII EVSLRVSIEV
PDGKITVEPE AIYLIPENKV YLTESDAMVD YFNNHAIFTL VPYARQAVSD LGQRAFHTQI
LMPALGPGDL VFSKSTASRE W

> aaRXA00745 (1-534, translated) 178 residues
VAYLYGSADG MLNTDGFNMF PRASYTILGP MDADAVGVYQ QLLNSTIPMD LARLVTTHNS
GASYLRRGAT NVVFETNLAL GVNPYMKKRR ATEAQRGKKR FKRDSHYGGG TVTTGTADLD
VVAMQARAEH REERLGEKST RKKEELAAVE AKELAAKKGP QTVEEGLAAV EKKHLAKR

> aaRXA00746 (1-1191, translated) 397 residues
LVHTDRVSIH RAKNGVRRTR KHIKTICIKH PIGRSVQISH SPTALSDAEN NAELTTAQIL
HIDPVTGVAI PRQNILLGED FQTMASSFSQ IRHGWGITQL IGQDPNRNQP IRSADTWTVT
GSTGLTGFNT ATHNTDDTDA TAAYTMPASD PAVGLCALES NKDAPVDEFR DLSLSALRTA
TVMSSSGSAV ITMHDPMVMS TTGALEARAY VDGEVINQHD LDSLRDQLGI TTDSADTTPA
LPADPLAALG LSTPTTSALV PGLAELDCLN TDQARTWHDR DNSIGTGKPA ILAVINAELA
DDYTLQILKN STATPTDSTD SSDTAERFVA QLPAETAFVL IDPDIGAVTD LFFINSINQD
LPAPTTQINS VAVDQRDPNI IYATFANDDR VYQLMLG

> aaRXA00747 (1-588, translated) 196 residues
MTFLHRSASF HPRTHDHLSE LGLDPYKLSQ DIPTVIYEVQ PHSVFILKFN TADVRVYQEH
SDLFVRHAVL VDPEQRKHEH DQLLKEILDL DAPRVNDDIS GRTTVFLHDK TVVTHSGGPI
AIIPHNPDVA SAAASANKHK QSVMTTSRHP YAQMSLSDML KQGFTLTPLE FPYCAVDDPD
SSRHTMHVIN VRDHTV

> aaRXA00748 (1-444, translated) 148 residues
MTYFALVARN YAETGVSVEF HEVDDDADNS NGPNNTSNLP LKLLRDHSFD ATVVYGDLVL
HTSAHLRDTA IANSDNRPRV VTTAQKFFDY IRLATRHGAI HDMINNAPDT GTDIVVITAT
NDALISDESE YYDELFHILE SAQGVILK

> aaRXA00749 (1-699, translated) 233 residues
MLRKTVTGGI VALIATATLM NSVSSAEEVS GDVSAVDLAF AEFERTTAED VANGVPEAIA
NAEKISNFTP SELEGFKSLL ASDAVLRSVS GEEILPDNVE VVQTDNVGDE DPNVISPAAW
QGSDYIEGCL TNTLYGIEVL KVCTGGTYYS NVGIATSVSN PRSYVKYNSA PGLAVTTSNP
RGGIEGGLAA FYGDVNLVAF PNIPWVGPIS SSAGTHRVVA RSFPNSVVLN VYY

> aaRXA00750 (1-438, translated) 146 residues
MDWSIIINVL AVATVVILTL IIAAALYRGF TRNKIKKLEA IREAQQHERD NPTIRIADLR
GIMDTHHYIY TDVMVTRAHE LMITAPAFFD VTLPEAVLYE DTKRAAHDAL NGYKDTTVAS
AEKIMLVDAV TAAWTLYSTK ANTGST

> aaRXA00751 (1-828, translated) 276 residues
MLVRSRTLVT AALSGSLLFG ATVNGTGVAI AYENVSMAAQ YEPRYESLET RLGSSGVFPK
SVEQSVENLA ELPEETRFLL EGDSFSIIID DGLLASRLDP NTGEIRHTLG ASGISYTPGE
MKRSYTDRVT VKVVYPDGSF DRVTPHSVVY VADSIYYGIE STGYPKVRNG QTVKIPLRVT
DGGTGAVGGV PQGSKVVRDR YGSIENAELM GAIILIDEKT GDLTFTAPDD RTGQLWFRTE
VTFPDGSDSE VQYVIEVTDQ PEPVDVIRPA GSSLSS

> aaRXA00752 (1-429, translated) 143 residues
MYSDKLILLF LSEQDSSYEC CVGLLDGSDG LDYIEKLLKG RKLKNHFLEW EDINKADVAR
EEIYKGQLVH LVFVTALSTP GEISFVFPGQ SLMSATLEED FAALVLEEER TSFRPELSHL
WSLPVGWVAP GLEGFVERNS EAA

> aaRXA00757 (1-1254, translated) 418 residues
VSFGVVKRPD ACYALFAILI KRNQATAVSA PMARQRQWVV HARRGHFERV TRSEVELSAL
LGGVEKLSDF LAEYFQLVEI GAGIRIYLDG DGGFWTCFGH FQALEVEFVG CGERLDERRQ
NFSGWKSHKD KDNLPAKIIG LLHCEAMRRR IPSVLGVSLL AAFLVACTPS PNPNAALAQM
YQDALFDSQA MSEAEPELAT LRSQHADELL AEIRRICGFD EGQVPESCQV TVPAIAILPT
DDPEKYVNDS QALILDNLDD IPEDSVALVV EQYIAQAEFA EGSEVSVPVD LELTEAELAA
AKDLADREFS AAWSLGVALA QLPETDREEV ETAISNHHDR ASQLQIITSG TTPAPGYVSE
LPDPTDETSA RSNIETVENN VTQAWHAAAS AATTDAWRVF CAHIAGDTAR ELTLIDVS

> aaRXA00763 (1-783, translated) 261 residues
VEKSRKRLVT IAASTIGAVA VAGGAFWIVD ASIAAHAERN LSKAVAESAD LENDPRVFLG
SSIYSTAFFT GKLDSVSIDM LDVEIPGVGM VNARTEVESV EVSRDQILSG DLDGTTAETF
TRTLRMDGVA IGAQLGITDL DISHPIDISP SGGITSEALL TGTPPDMEDP VSVLVTLRLV
GSEFQMLPYE LIDAPSGLTL DDVAPDFTWK IDTLQLPLAD RAMAVYLSGG SVHFQSEARN
VQLTTRELSP LAAPEENSDE S

> aaRXA00765 (1-687, translated) 229 residues
MSENSTPNNP VVPGAGADGP SLSDSASISG SDAVNLAAEQ SKSTAHRNIP GLGDLPIPDD
TANLREGPNL HDGLLALLPL VGVWRGEGQA DTAEDGQYAF GQQITFAHDG ENYLSFESRM
WKLDEEGNPT GVDQRESGFW RINLKDEIEF VCTHAGGVVE IYYGQPLNER AWQLESASTM
VTATGPSTLG PGKRLYGLLP TNELGWVDER LVGDALKPRM SAQLTRVIG

> aaRXA00767 (1-714, translated) 238 residues
VGTIEDVANE QIEVANNTDQ IPAGYKSPLL SRSGAAEAQG AAAQAGTEGV AWHYGSPLVE
QRIFETGTGL VDRSNRKVIK VEGPDAPTFL NNILSQKVDS VENGFTAGAL DLDAQGRIQH
TMQVTVVDGV FYLDTSAAEF DTLIGFLTKM IFWSEVTVQE ADLAIITLLG QEIALPDAVF
ARRVDWNGPS RIDVAIRREN LEEGVDKLLE AGAKLTGLMA YTARAREGVG ARCGRGFG

> aaRXA00768 (1-444, translated) 148 residues
VKALEPAAGV DLDDKTIPHE IPHWIGRGEH LGAVHLTKGC YRGQETVARV DNLGRSPRVL
VLLHLDGSAP LDPVTGAEIK AGARTVGRLG TVVHDADYGP IALGLVKRSA LDKELHIDDV
SVNVDRDLLP AEESEQRGRA AINKLKGL

> aaRXA00769 (1-213, translated) 71 residues
MGRGRAKAKQ TKVARQLKYS SPDMDLDSLQ RELANQSPRR SYSDTPDDED QYAEYADWDE
DDTDNRAYGT N

> aaRXA00771 (1-678, translated) 226 residues
MTNPYEAFIP LKHRTGIEPE HTFWEWENKR VHIARRRREA PVRVIVVHGL GTHSGALWPL
VAAIEGADLA AIDLPKTPLY DDWLRLLESF ISSEDDGRPL ILIGAGTGGL LCAEAAHRTG
LVAHVIATCL LNPSDQPTRR ALFRFSPLTR LIQGRLRNRE IPVTRVLNFS KISRSPALSK
LCAADEFNGA FKITWGFLAS YVQHKAKLGA VPLTLMHPDH DLFDSR

> aaRXA00781 (1-288, translated) 96 residues
MSENKNIEIV HNEGQKRFVI SVDGTPAGFA SYLDGPDIRN FNHTVIKPEF RGQGLSAPLI
KFALDDARES GIRIHDACSA VAGFIQKNPE YKDLKN

> aaRXA00785 (1-621, translated) 207 residues
IIATLGVTLL VEARGLFLTV ASIPILFGIF TPLTSWFVSQ QGVAANVSPG VSVTEILTAV
YPLAQLFPTL IMVTLVAALI AVVRIILLRR NQESRQVSGE LTRRAQREAE EANQNAARRA
RAQSTRVQSS KTRNRRAQPT GDTGSQVTVD ELIRRSQERR QTVAQRQTER GVPFTPTPGP
VVAPKPRPSA PEAPAPTDVG ERRQAAP

> aaRXA00788 (1-225, translated) 75 residues
MASSINIGVF NLGNAVAAWL AGATITTSLG LTSAGLVGGL MTSLGLVLAI VAVVLRRKAQ
GTQATISVVE HQPAQ

> aaRXA00795 (1-528, translated) 176 residues
MIISLVVSAI IMLVAVGFTG MCSFNTGSPE NGQVPEVDAS TFMSMEARAM TDHATRLPET
PEGWTTNSAR RTMVDDTPAS VVGYVTADEG YIQLTQTGET VEDAVAGYDT RWRDLSESYD
LDGHDVGIYT SQESDVRDLR VMDLGDARVM VSGAATDEEF NDLLRAVANS EPLPTN

> aaRXA00804 (1-444, translated) 148 residues
MKIRSAREIA EWFVAWGDEL DAEVSPLKLQ KLLYYSQGEH IAATGRKLFS DKILAWQHGP
VTPGVYSDTK SYGRNPIDPD EFVSDEFNWD DYSDVSDELV TVWRKYGIYS AWALREKTHS
ESPWLDAWAQ GQNIEITDAA LKDFFLVH

> aaRXA00805 (1-882, translated) 294 residues
MAESFIEVSA GHADRRIDKF LRAQLKGVPA SLIFRQMRKG DIRVNGRKVD PNYRLQEGDR
IRMWQMDLLA DLPPPVVDKH IFKAVADSVL FEDAELLVIN KPAGIPVHGG TGHGGGVIEA
LRQKFPQERD LELVHRLDRD TSGLLLVSKT TSVLRELQEI LRDREEEIFR GYLLKVEGAW
PGDLRQIDVP LKRTETTVVP HSDGLRARTY FEVVKRLPGA TLVKAQLATG RKHQIRVHAQ
YAGHPIVGDP RYGSRGGRAA TMHLHAAELV APRGAGKRQK FTAPLPKEWG MGRV

> aaRXA00808 (1-678, translated) 226 residues
AGFNEMMRGL RERQRVRDLF GRYVGAEVAK RALEERPTLG GEDRKVAVLF VDVIGSTTFA
VNHTPEEVVE ALNEFFEHVV EVVHRNKGVI NKFQGDAALA IFGAPLPLSD ATGHALAAAR
ELRAELKDLQ LKAGIGVAAG HVVAGHIGGH ARFEYTVIGD AVNQAARLTE IAKTTPGRTV
TNASTLREAN EAEQARWTLM KSVELRGRSQ MTQIARPIRP TLADRS

> aaRXA00812 (1-1059, translated) 353 residues
MNTITHQAIL IAVEDPVLHP EAMHVAAATG RPVIETTNLM DISRHFHRTS AVLIDASMAS
QLSPGKRRDR VFLLDSDPGP SDWKTAMKIH AEQAMLLPAQ AGELLSALGR DDKQLPVASG
HVIGVAGVVG GTGASTFAAA LAKRRAESVT TVLIDADPSS GGIDLLLGIE DVPGARWPDV
GLRRGTVQAA DVLKALPSTP DEVVVLSTAR SNILDPFALS ESDVSAAIDC FLSADRSVDV
VVDLPHARVH PDIAERLSHL VLVIPAEVRA VAAARARCLE LQQLHVSITC VLRHRGWSGL
DVAEVEEILG ADITAEVGSI QRLAKSVEMH GLTGSLPRVL SSACDAVLGE VAA

> aaRXA00814 (1-774, translated) 258 residues
MVYALGLLSV AVLISGSRGP GARTRPPTPG NGVHLFALIA LFCLATVLFI VVDAYTMIAG
IIIATTLFWY LRQTHAAAQR TKQSLQLASF LSLCAGNLRA GVTMVDAMDY ALDNTTPDKF
LSPTLQTAAR QARSGGSGPR VLIDASLPDL QRLGHLWETS ERHGIPLVAL IDQMRSRISS
KQRHGESTRA ALQGPQATAV ILTVLPLAGM LMGTAMGANP LGLLTGGGIG GFLLVIGVGL
DAAGFVLTHK ILQSASPS

> aaRXA00815 (1-573, translated) 191 residues
MITALVLAAV AMFLGSPNPG VRGGLISPKS GKSLRIRAGP KKLGNADPVD VSADIELFSA
CLDAGLNTRD AAQVVAHVAA ITHRELWTHV VALLSIGVSA PQAFALMAGV DGLDELANLA
TVSHRSGSAL SDGCRNISTS LLASAGDKRT AAAERAGVFI ALPLALCFLP AFMIVGLAPV
VLSLGTQLIN F

> aaRXA00816 (1-297, translated) 99 residues
MTIASAGVAS ILISLLVVLA WQAGNLVARE QAQVAADVSA VAGAYAFARG ELPDAACATA
KHTAEANNAQ LENCATEGED LTLTVTVRGQ EAHAKAGPL

> aaRXA00826 (1-531, translated) 177 residues
MITVLIDGQS GAGKTTLAGE LAARTGFQLV HLDDFYPGWT GLEAASEIVA RHVLDADNPG
FFTWDWHNNC QGDWIKLEPG RSLIIEGSGS ITAATKRKAS LLGELVTVRI TGPEALRKQR
ALNRDPDYAP FWKVWAQQEQ RHFSLGVEVD HEIVLGSDEA SGRPEEIYDS LGTAQSS

> aaRXA00830 (1-723, translated) 241 residues
MENPGDLGAM PQYGFEHISM LITAVVLAIL VVPIARRFNF APAFGWVLLI ATLLSNLWNF
MPGYYTLDQS WPFHFSDALR IIAAIALINR ARWAVSVTIL WGTTINLMSL LTPDVQYLQV
PWLEFLMYWF MHISVFLAAI ILIFAFGEKP GLSGVVMSVA VAISWGIMCL MVNAFLGTNY
GYLSTEPESA SILDLLGGWP FYIVAEVLLL CAVWALWSYL IDKLPITYRP AYRPKTRKAA
A

> aaRXA00831 (1-702, translated) 234 residues
MSALETLQWQ DWSSVLIVVA HPDDPEYGLS AAVKEWTDAG VEVSYLLLTH GEAGIQGLDP
KETGSLRAAE QRAACDVVGV RNLTILNHPD SMLVYNLVLR KDIAREIRIR KPNAVVVSNF
DVEAYGGLNQ ADHRVAGLAA IDATRDAANP WAQPELLQED LQPWGAEVII IAGHPEPTHT
MDLAKDSVDA GVASLQAHKE YLAALPDPPK PEEFIPAFLE VEGGYAAAFR VFGR

> aaRXA00835 (1-690, translated) 230 residues
FAPWALTPIL MLGGSYLCFE GAEKIWHSLH RRIKGEQHST EPKSQESPKS EDQLVKSAIT
TDLILSAEIM VISLNQIADQ TIWMQAAVLF VVGIGITALV YGVVGVLVKM DDVGLTLSKR
DSAGIQKFGR GLVKAMPIVL QVISVVGVFA MLWVGGHIMV VGTEELGWEL PYHLVHGLES
WANGIGGSAL GWVGNTFGSL VFGLIWGAII TVVVSVIKKF IPQRAQNSSH

> aaRXA00836 (1-1671, translated) 557 residues
MYTHSTGTPQ LDFDGDIYPL HLFFSAQTAQ HFALERVNWH VLRAIVKPEQ GELIVEALLA
PIESATKIGV WVQDEFLGVI AESQFLLNSQ LSRIFASGHL ISSQLLLTPS KGSLASVLLP
NLKFGLISND PPRADSHLLP LGRMWRVEPT VHALFEDFSL GSTILFGLRL DLEALIVSYN
GIECGILNFD DASALSSAVK FSNANGLTPT VLGHVVRENG ETSFEIDVLP LELWSKKQHR
LEVLKIPRLI PKEADSQNYV KATALLSDEI LRPQTLSKKA LSLSDTAVKY SPHVACGVGM
FSLFAVIPFD KLSDHSAMLL AVISLMLFVL ALVILFKRIQ STNTQRWNLA SSVGLLATLP
IIIFLVADTL IPQGSLENHA QPDVQVTTLA NRRPSSPTSL DSLGALNSPS SPNSPSSSML
QNSEMFASPP IASGQSPVST FRSWLDRSIL PLTRENSASE SAVTALGPSI VQPASESITT
PAQTSQSRHA IDDGDDSKTS TGRPAPTTNS PIIALPPTWI IGPEDPESTD PTAPTEPTEP
SEPVATDEPS ETSEQTS

> aaRXA00840 (1-714, translated) 238 residues
VTKTLPRLLT VAAALAIALP ATPVASAVTP VEQAFNASSN LSSGLPVDQW GRPNEQFRQQ
IEQAVNQPWV PQEIKNIVSQ AMGFITGDGS EGGDIEIPDN APRIAQFFWP TRSENCINGN
SAAVGSAFAV PGPADLPLPG AGVGQTSFVF TALGTGPLAE QQSTAMTVQW ANLSNFTHGT
TTLSNTGINP DGPSTISGVA DTGRGIIVAS MSGGLTTSTE NGSANCNFIP TAVVFDVR

> aaRXA00841 (1-537, translated) 179 residues
MTDLHPVKQE IFNTAESINT DPKGFLREVD TFKVTDFGLY MARGANHPKF GYLESWLLPE
LGLRANIFHF RKGVDERQDY YIDVAEIRVE DNIWTTRDLY VDLISVCGEP VTVMDIDELA
AATSAGLITA DDAERAIDAT LNAVEGITRH GDDPMQWLRS KGIELTWADA SQVELVPAE

> aaRXA00846 (1-387, translated) 129 residues
MLKNDLSGAR VVAVHAHPDD EAITTGGVLA DLAARGADVT VITCTLGEQG EVIGETFAQL
VNGDADQLGG FRIHELYASL EILGVRGIHL GGAGCWRDSG MVGDPANEHP RAFIHSGDRA
VEQLKELLA

> aaRXA00853 (1-603, translated) 201 residues
MPTSSSPATV TPLKKQSSRK QLQDIALIAV FAALIIVLAF VSIPVGTAGV PIVLQNASIV
LAGLILGGRR GFLTALLFLA LGLIGLPVLA GGRTTLAALA GPTAGYIVGY LISPLVAGII
AYLAPKKRGA GMFIVLGLAG LAGLITQYAC GIVGLVLRAG LSLSEATIAQ GAFVLPDLAK
ITVMVIIAAG VHAAFPDIRK K

> aaRXA00854 (1-213, translated) 71 residues
MRLSEFRQLI EDEFGEAKGE WIAHSHVIGA LGVTADVAVD TGVDLRDVWE QLCIDFSVPE

ERRLGKDEPG F

> aaRXA00855 (1-285, translated) 95 residues
MTYFAVLYTY NPDSEKVAEV RTVHREFIAN LHAEGKIVGS GPFVDGDGGA LIVIKLEEGS
NLVDAETLMN NDPFHVENVL DNRVIRSWNP VTKDF

> aaRXA00861 (1-426, translated) 142 residues
MAPHKVMLIT TGTQGEPMAA LSRMARREHR QITVRDGDLI ILSSSLVPGN EEAVFGVINM
LAQIGATVVT GRDAKVHTSG HGYSGELLFL YNAARPKNAM PVHGEWRHLR ANKELAISTG
VNRDNVVLAQ NGVVVDMVNG RA

> aaRXA00862 (1-564, translated) 188 residues
VTETETANPV TTTRTPSDAA PSPTTSEPTG SESTNSPSPT ALPPLGSPSM DQKQQAQVGD
SDMSIAGIRV AEHETFTRVV FDIAGNGQPG WWVDWATDPI QQASGLPVEM AGDSFLNVNI
QGTGYPDQVV VPGIDTGSYP GAGIVEDINF TSIFEARSQV LIGVSGQPRN YSVSLLQEPT
RLVVDIVH

> aaRXA00869 (1-792, translated) 264 residues
LFIVAADHPA RGALAVGDNE PAMANRYELL ERMAIALSRP GVDGVLGTPD IIDDLAALGL
LDDKIVVGSM NRGGLRGASF EMDDRYTGYN VSSMVDRGVD FAKTLVRINL SDAGTAPTLE
ATAHAVNEAA AAQLPIMLEP FMSNWVNGKV VNDLSTDAVI QSVAIAAGLG NDSSYTWMKL
PVVEEMERVM ESTTMPTLLL GGEGGNDPDA TFASWEHALT LPGVRGLTVG RTLLYPQDGD
VAAAVDTAAR LVHTDIQQFT SQSI

> aaRXA00874 (1-1089, translated) 363 residues
MSIGQHIITE RFYGAKSHTI DNVDIVLSRE CGENTLAVVR INNALYQLLV NDDGKDVLND
HVEEVGASFG AWTGSSAFPI GPFTPLGTEQ SNSSFITADN KAIVKYFRKL ESGQNPDVEL
ISKISSCPNI APILGFSSAE ISGANYTLVM AQQYVPGLDG WSHALTTTSG SFAEDAEKIG
EATRNVHTAL ASAFPTRVVP VEALADALTT RLNELISQAP EIARFKEAAI DLYQSLEGEA
HIQRIHGDLH LGQLIKTPER YILIDFEGEP ARPLNQRRLP DSPLKDLAGI IRSIDYAAYF
DGEHTQWANE ATALFLDGYG SIEDQELLNA YILDKALYEV AYEINNRPDW VKIPLEAVER
LLD

> aaRXA00876 (1-1755, translated) 585 residues
MTLKIDPSSI SSAVSRLNEL QHQAITASQV GMKSTILSAF SPVSGLDQLG SGHGNVINGG
AGAANSVLNS YAEQIEWLSA ALQASGAALT GQDELFARGM DVADTGGRVV EESVMFPARP
APRFESFVFN PPAVSPSLSL DALCSQFSGT NSGAVLEAQG SWGSMASAIS NVSASLSSIA
GEILAENSGE TFEQAAARIN EVAAAGATFA ANAKMMGASV GTLNRIYMGH RMQVFMAATS
IKAILDPVQR LAAERAFLAS FQATFQADVL TGMPPVSNLM QMKGANGSAG EIALGMDEIA
GSGQAWSAAG LTPSGAAQGG VANAGSIAPD AAVQGAAGQS GVGSFGTVTD QLDGINIGDM
LTSAASAGQS LANGLAMPTS TPNSASGAIP SSMSAASPLG AFGSGAGLGA QGGSIGSSAP
GAISSRAAGS AGGSVPGMTG GPGAPGITSD SLMGARTHGA SSAGAVAPMM GGAGGMSGGV
VGAGGTGSQS KYARQTGSSV GSSSQSGSGL GMVGSGSGKP SISNFGRGMM PMMPMMPMGG
AGGGQKNTGK VKTVTSAVEE DRNLAALLGD RGPVVPGVIG DWVRG

> aaRXA00881 (1-378, translated) 126 residues
MSNTETQFDW DGSTWTRTEV GEAPTRFAVG VMEDFAYIAA TGTDGDEEFF TLGSNPGLTF
GDPEWLFAQD NPQYVVECIG QQGTEPAALK VVDKYLSRLS DEESRGEPTR ILNELVSAME
LPALPW

> aaRXA00882 (1-678, translated) 226 residues
MSSTTAQLRH RELTQEIYNI GDEVAEYIEH IMEAVSDWDL ELVEDCLAEF DEIITEARDD
SRTVVAELSG LRHALTTGIR QGTVSARATV EVDVDKPERL TASELERDFD IDAGLVDVRD
LSTALNARTD AVVKRLEATV EWVLAETDKV ANDLDSLSLP LLYGRVAAVI ESATSAWINA
VGTANPAYVR TMRGSNPPRF LLERARIDAV VARVADKLAQ KRNAVS

> aaRXA00883 (1-519, translated) 173 residues
VQGMKRKMVA AALATALLFG AAPAHASELV EPTTVAESVA LDPNKAINIL TPDLWEDIEA
KPGDIVHIPY QGTRNYEDLT VEVAKPFEDF QILVGLDNSI VIAVPKNLSG AASVAPVFTV
SDKNGEIDSF TIKVSVEPRR QSDEEKRSAL FDVISELAYR MPHLPFVSEL LKY

> aaRXA00887 (1-723, translated) 241 residues
MSLPVFISDS AAGPGETIEL AGPEGRHAVT VKRIQVGEKI SLIDGRGTAR TCTVTALQGK
DRLNAVVDLV EEIPAPNPQV TIVQAIPKSE RSELTIDLLT QAGADRIVAW QASRCVAKWG
GKEAKSLAKW QVAAEAAAKQ SRRATIPEIL GVVGEEGVEK LIDESDLAII LHEEATAAIR
ELEFSGNVVV IIGPEGGVAP SEISRFVDAG AHTVKLGPEV LRTASAGMVA LAAIGVLSDR
W

> aaRXA00889 (1-588, translated) 196 residues
MSIEVFNESG YDGVNEEMLI DVLSFALGEM DIHPDAEASI HIVDVDTIAD LHVKWLDLEG
PTDVMSFPMD ELTPGYSRPD GATPGPAMLG DIVLCPEFAA KQATKAGHDL AHELALLTVH
GSLHLLGYDH VDPAEEREMF ALQNELLADW YDNVEARGVT YQPKPSGAGA FPTAADRLEL
DEKMEADDSG FGGVES

> aaRXA00893 (1-597, translated) 199 residues
MVESQHIIFI PESQQTPDEF TEVVNEIPAG IKPRIVPWSG SVSAGVQAVE SILDREEIRR
VILVGAGTGA GVALEIAKNQ PRRVERLVLD SPLVTFDEKQ LKGMSTALKM MPGFFFRKKN
KKDLLQQVEE ARTAVPMGFS EITMPTLIIR GSAAKAGIDS DLEKQIPSAR ATTIIGANWL
TYTTHGRQTG AAIAEFLAQ

> aaRXA00895 (1-591, translated) 197 residues
MRGLAMILIA VAVLLAAWAL WSMQGKDDTS TTSAGQTQST ETNAGTIAES SGSSDSEQAS
AEPGTSEETS AEQPAADGEA ANAAGAAAAG GASSANGNST PVNTLYVLNN STVPQLAARV
ADSLSGDYQK VESGNLPDTI IPQNTVYFTA GNTEAEKAAR ELADRVSGVA MERSDALPTE
TEGKDALVLV LVQDVAL

> aaRXA00903 (1-633, translated) 211 residues
MGNPLAVIAD ADDLSAEQMA RIARWTNLSE TTFLLKPTQE GADYRVRIFT PTGELPFAGH
PTLGTAHVFR ELHGEQGTQL VQECVAGLVA VRAIDGPASG LAFQAPPTLK DGPLDASDLD
AACEALGISP DFIRAHQWVD NGPGWAVVEL PSAQHVLDLE PDFSAHPTLK LGVIGAYPEG
APHAFEVRAF AQGIGEDPVT GSLNAFIAQW L

> aaRXA00908 (1-558, translated) 186 residues
MSLYTRTQNT RHSTIIEFRR EQTRNHTMEP IQSEPRIYAD DPFRARFGHQ LPRGLREEAR
GMEWRTFTNT YAPTGNLRIS NLESEARRGG MFHFNATLIN NCQGERTTTD AHIMATGPVS
ACTNLLADAG RRVEILEFHQ FDIFEATVTF IYTCNNVSRT WAMGFGGTPE QSAASAMSSA
AHLLYG

> aaRXA00915 (1-510, translated) 170 residues
MSAAYSQDTI LTVFLGRGLT AEGIRQTLED FAETGLVRNL VWIDADSFHE SSSEVTHLAT
NQDGLPELQR RPFNELVSRS RTTKLHIGVI NVIDGSEGML HAEELNPLVG IIDSVCSHHQ
IHRSNVMIGA VAATLDEELP ILRGYVNLML APEDSHSPGT ATVTYRHGFS

> aaRXA00916 (1-3591, translated) 1197 residues
MKKVLVVGCG GSGAKTLAYM MDQLKTTLAD SLPERYPNPK EAKLPGAWQF VSVDVPTSPE
SPGPNLPNVP EAGGRYISCG SSDRYATVDT AVSNQLSSRG ALGGVSSWAL RNPDSETTPI
SKGAGQYRSI GRMLILSRLQ EIQAELRKSW DVLFSGETER ELADLRSALY GTSVSSGETS
KEQPIIFGVS SMAGGAGASM ALDICRLLTG LEGNAVGLSS LFMVTPDIFS QLSPDQVAGT
NPNALAMFAE LAAAQMGAAS EEDARLFNAL GVSVGDDSIP VGRIFPVGIR SGENGALLGD
GKPDTVYRAL GRGLAALMAD EVSMDNFEQF TLGNRGGGSA DQSKYAWGAQ EAKNIPWGSY
GYSQLSMGRD RYAEYAAQRL ARSAVDRLLK GHFDPSNDAA SDQQLQKRLE NNRPSLMGNL
SDVLPVNAPA GDWIFHSFNQ MIENWTQRMK AIIKSQIPAA NGQRGSEWLG DVQRAFQSSS
QMIDNDSRHE LYMGVADWAS ADVLQRRVVE LLRDEIAKLG VPYGVSVIES LSATIQNQLI
GQLSDLANNR APEAVQLDDV SRSELDNSKG RIDDSDSYIQ EIVSRSTGQL HTRAVQYIAD
HMASVLDDFL KNFIYPLQRT IQREHHSLEK DYQLTNDVNL GISQLKTNVP ALWPDESQTT
VPSRFSQAAN EVFLTDVASF PEQFQAHVRS STDDINEQND YSSALQEAST RVVSGVWESK
SGSEKAPRDL IRLIDVWVAR DLTRDPSGSG SLRDPKQARF ELKIDTGEVL ERSRQYIRRP
GFSFQQFIAS SLREFITAPG LADHERRARR QQVLSKFSEA MTYALPLAQI NPQLVRALYG
DEVRYNFNFS RIPFAGDELG SSLEQAVRDY PNHRPADISK PLGKALVSQG EERSIDIFGS
YPNYAPIVFD SLLPPIEKQW RQITGDRTEF WHGRRTRPLT AALPMTDLER NAMVKGWYIG
RLVGRVFFPA TLDTADTTPV QIYDEKSDSW INFSTPMLTP VSRFRGSLDW LPNLLESASL
AWARAGERPV FESVEPYIQL RQLWDDAASP SLPGRTTRGE KLLHDWLFDG NRMAGNVLQI

PGTEAGVTPA ARFEAAKNFL QRQNEISQNY VPSDKLRQGR LFTTADRPFG DVKDRELAAQ
IPVFADLAAD VFDGTQEIID ILEKCLAAGP PSAQVFDMNV ARRDVSSGPS LPGEGEF

> aaRXA00917 (1-1383, translated) 461 residues
QLNMQLVGRD GQPRILEGSA LVDLGFTRAD TGEFAPLAQG IDISGGELSF PLDTISQLPA
IGTVEARTTI TTAGVDDLPG TTLSPILNTT RITITQRDMP QLPASVRFTA DEDVVTVDIP
ITGPGKVWIA PGTQLSGVLP DGVDGIAASS TFDSPDNALV LGLDEQGTIP VELTVSDLRD
GLVNGSIPLQ ISNAEGANET SVDLPTEGTL SVPINASTFA LAFILALVLS LLIPLLILYI
VRFLSAKVPS SAMSGVRIPV EFSGEALRYA GSTMPDLASQ TTATKQVVVH GDTFNVEGHK
LKVQRFQLNP IASPAVIVQT DPSISFDGKQ KGTQAKLPLA VQGSWFLTAS GADPSKMELI
ALTNLPLEQG QIDRMIAGIT SKAPDRAREL QKLLDDAATS QPAKVPPRAP AAQGHVEKQA
PSFGTGSGGG FGSSNGGGFG SGSGSNDTNG GFGSSGGFGA R

> aaRXA00921 (1-1899, translated) 633 residues
VEGGTWSAQA TKEDLQFIAE VAPTHIETVT PFDDFISSED IDALPRRFEY RPLAGRSLIM
QSVPAGKDAT GRPGNVFTHA VFDGDLESPL ESVYPISLYR SPDLLTPFRA AAVNAAELPL
DAGEPRIGPI TDLSLSWMMI DSMFGDRRQQ FYQLQDALQA GDKATVLVLN STNEAAYWLQ
ALSSTLTPNE ARRLLHFSTF ERAATLPAPD KSMEARSLFV VPGIDRELLA EHSGIVIIDP
EIPQSQPFGP QGSWSRMTEG LFSDGFDADE LVAGLIRANE NLDNSQKELA QFGDGLARFI
RNGRFSGTHP LRVLADQHMF GKVPDKPAPK VEPVAPAPNP NAIWARASEV VHNPRRASES
QDWPSLRRLP DSRRRIINMS EQAINSIEKL HDSPAQDLVA YLDFLLKTEL ATSINASDPF
FRSSFSDFPA MDNWRHIKFT EDAHPRLREL LVDAERDARN RAPAAIVLDH IVPNFSRDRS
LPDIEDWTRS DEAQQIFAGI IAGASVQTGR SHFMWDLLRA YFGVALIGDE DTYRAFTTLT
VDSVLSFVQL TLQEGRTEDI RRFEKYGEQI AREDLPSILT NARAVQQYLG YIDQDIINKK
VSRSRDVNQI FTEMARAIIR AISRNNIGKD MRS

> aaRXA00926 (1-363, translated) 121 residues
MDIVFLIILL AIFIVPTFLM SRRQRARMTE IQKLQDSVVP GDRIVTTAGQ HATVISTTAE
TVDLEIAPGM ISTFEKLAIV RVLSKANEPQ MLDEPTLFDQ PEDDQPNDGF DGRTDGHPEN
R

> aaRXA00930 (1-753, translated) 251 residues
MSGHSKWATT KHKKAANDAK RGKEFAKLIK NIEVAARTGG GDPSANPTLD DMIKKAKKAS
VPNDNIERAR KRGSGEEAGG ADWMNIMYEG YGPNGVAMLI ECLTDNRNRA ATEVRTAMTK
NGGNLGESGS VSYMFTRTGV VTVQKGDLSE DDVLMAVLEA GAEEVNDNGD LFEVTCAPTD
IQAVRDALVE AGIEVEDSES DFRASVQVPL DADGARKIFK LVDALEDSDD VQNVYTNIDL
SDEVLTELEN D

> aaRXA00932 (1-474, translated) 158 residues
MTPQKLHRFA ALLEMGTWTL LIIGMILKYS GVTDAVTPIA GGIHGFGFLC FAAITITVWI
NNKWTFPQGI AGLIVSVIPW AALPFALWAD KKGLVAGGWR FSDPSEKPHT FFDKILAQLV
RHPIRSILIL LVIIAVVFSI LLAMGPPYDP DAIANTVD

> aaRXA00933 (1-462, translated) 154 residues
MTLVYLLIAV VVTATVLWAY FTAQRLNRLH IRTDSARQAL QAALDRRAAL VGALLPDAAE
ASKRAEAIPL EYSRFSQRAR AEREISELIL KQGKTLPDSI VDAATRVELA HRFYNEAVSD
TRDLRTRLMV RSFRLGGTAP LPEYFELLDT DLLT

> aaRXA00940 (1-396, translated) 132 residues
VILVLLEAES MRGYQIITTI SEQTEGNWTP SPGTIYPTLS MLEDEGLISI SHEMGRKMAR
LTEEGAQEVA KNKDAWGSIL EAYRNPESRE VRVFNIRSEF HKVREAAKAA PDDKAEQIIE
ILRRAADDIK RL

> aaRXA00943 (1-507, translated) 169 residues
KPGVKWRATN ATKRGKKQLQ QALSTKSETE KFGEKASDWF NDTSDKVTEY AYTAQDFVGE
NKDDWIKSAT ETAHKVADTV SDYAHKATSY LEENSGDWLE AAQANAKTAR KSAVKAAGKA
HEKANFALQV AEETSGRANK KATKSYDKLQ KQADKAIDRA QKKLKGIEL

> aaRXA00946 (1-774, translated) 258 residues
MTHTLQATNP LDQTAWHAWH FSRNKEAISR TGATSLSATE WISATTLKDA HTFPSLPGRW
YKRGGGVVGA HLPPAFATTG TVQLRPGELL IAEDFTLTVI ERLGQFALQV FDARNPKRFE

FHSIAAFPPS EEWRIEARFF PEPDTVNTAA ADGVIVATPT AGWVHFLKGR LDYRLRVTVQ
KNNLRALFSD NSSTLGVYQH RFVDIPRPDA EGNTIIDFNR AYLPPKALNR KFLCPSPSLN
NHLNLTVEAG EKWVVAGG

> aaRXA00949 (1-648, translated) 216 residues
MKVFIIGAAG GIGNRLSSLL HARGDAVSGM HRNLEQASKI TDTGATAVLG DLIHNSTEEL
AELFRGHDAI VFSAGAHGTG QENTTLIDGA GLRKAADAAS AANVSRFILV SAFPESSRGE
NTTENFEHYM KVKKSADVYL SHTDLDWVIV RPGVLQDEAG DGLVTAGLAI NYGNVARDNV
AAFIDEALHQ PQLSKIIVEL TDGSTPVAEA VERLIK

> aaRXA00959 (1-327, translated) 109 residues
MTVIGIILGS LFGVLAVLLI VVGALGWAAK LPGNPVVGIR VPEVRKSQEL WDMAHRVAGP
LWVLSGVSFV IASLVAFVAS GWMWLVVALG VEAAIAFIGM GAGMAAHTG

> aaRXA00963 (1-438, translated) 146 residues
MRLATIRTNG TTIAARVESE NTATTIEGFA NVGELLQESN WRELAENAAG EAVTFENKEL
DAVVPAPKKI VCVGLNYANH IKEMGRDLPD TPTLFVKFPD ALIGPFDDVV VPEWANKALD
WEGEMAVIIG KRARRVKQAD AAEYIA

> aaRXA00969 (1-147, translated) 49 residues
IRQEERDDDA RLIVVTHSAL ESDLSRTVEL LKAKPVVKAI NSVIRLERD

> aaRXA00971 (1-273, translated) 91 residues
NHAEAEELDE ALSPLINRLR EMGFDPTETE EANSLALHSC PFVVNDKRPS AFVCAIHAGF
IQESLGENNR IQLELKPLNA PGTCKVHVFS E

> aaRXA00973 (1-603, translated) 201 residues
MNHSDDDRMQ KWFQIRRELG KEIVKQLQKD LPAVASDIGS MVYSSDQVPL GNATLTAYGD
IGNRVASAAT SARYNVEELL DAIENARFAI WVPNYDNSYY LSGEEGADEF QTYLIKDASR
FLESSGNTPP ENPQYSDSKL TFASELLPFY TAFNNSTYPL LHACVQGEPT EVDLYFYELE
QAELKEKETA QLSSGSSFGS S

> aaRXA00978 (1-615, translated) 205 residues
MSRSPLTKGL NQLEHLELDK SLTAWSWAED DPLYLAGENL NGSYLIVAGR VRVSRDTIDG
KELTVDIATP GDVIGAIDTE PQPAVDSAWA IETTCALFLP ATALATVIEQ HPSFALAMIR
MQQQRLATAR DHEINLTTTT VEQRVAIAVR TLGRKIGQRR PDGILLIQVR IRREDVAGLA
GTTVESTSRV LARLRKEGVI DSGRE

> aaRXA00986 (1-342, translated) 114 residues
MTLKDKYDTE VAVSNNQDKH QFEVSYPEDA VTAGFAAYLD KGDSRIFYHT VVGDEFGGKG
LASILVSEAL KATKEAGLTV VPVCPFVKGF VEKNAFEGYR KPNHEDMELV KSQM

> aaRXA00987 (1-465, translated) 155 residues
MPKSLTFEDS INIAAPINQV YALVSDITRT GEWSPVCEKC WWDEDEGPVV GAHFTGRNVT
PERTWETRSE VIVAEPNRCF GWSVTDGNVK WIYSMEPLEE GTVLTESWEF TPKGQRFFHD
KFGDKSIEEI EKRRLAAITG IPETLVAIQR ILEVE

> aaRXA00988 (1-423, translated) 141 residues
MSKREESIEY GPLGKGHDPL KDPMKGIRGV MAGTLVMEAI TLGLVLTVIL RVDDGIYWTT
FNWVYVSAVA IAHFVAAFLQ RFSWSIPMNI VLQVLALAGF FVHPAMGFAA IIFIIAWAYL
FYLRSNLIDR MKRGLLTTQH S

> aaRXA01005 (1-846, translated) 282 residues
MELARAHHAR ADSFTKDHLK RRQAHIKHPV FDFLFEYYPV RVAHLKTWHP GIGVFLEGTP
PHATMRDFLL VDASLHHAAG VQLDLASYMQ RRGSSVRYIH ELLSATRDNH AQFDCFGLHE
WAMVYKSNDL RHDLPLRLTP SETDRVVESH NIKCTHFDAY RFFTTPAIPL NLTVLTREDQ
PRNDQCGCLH ATMDLYKWSA KLGPLVPGDL FLDAFELARD TRILDMEASP YDVRGYGFGY
VPIETAEGKA EYVSRQRELS ERAKPIRDRL VSITKQALQA SI

> aaRXA01007 (1-1707, translated) 569 residues
VFKKHRHGLG SPETKPRSIT RRFFTAAAAT LAGLAVLSGC TAQPSQAEDN TLTYLEPQFF

RTLYPPSAGF YPNGSVVNNI ADRLLYQDPE TLELKPWIAT ELPEVNEDAT EFTFNIRTDV
TYSDGTPLTA ENVVKNFDLY GLGDQDRRLT ISEQITNYDH GEVVDEDTVR FHFSEPAPGF
AQATSSFNAG LYADSTLEFA NEDFAPGNAQ NVIGSGPFVI TDETLGTNLT LTAREDYDWA
PPSREHQGRA KLDAVNYVLA GEESVRIGAI VAGQGDIARQ IEAPVEAHLK DAGIPIISAA
TNGVNNSFNF RFKNELLSDI RVRQALIHAI DREKIMRVLF SDSYPLATSV LAQNALGYKE
QVDAYVYDLD KATALLDEAG WTLDSDGMRR KDGELLELTF NEALPQPRSR EVVTMVQEQL
GDLGIKVNLN PGDQAAQDAD SKDLNKIQVR HTMVGRADYD VLKSQLYSTN RNELLNMTVE
GETADIGDPH LEELLMAIAS SPREEDRAAA SAAAQDYITE QAYVLPLFEE PVVYGVQPYV
KGFSPEVIGR PSFYETYIDH SSDHSSEED

> aaRXA01008 (1-1941, translated) 647 residues
VSTTDKQVAI VGVGPRGISI LERIAAALNT VSRPKQGLTI HLIEDAQMGA GNVWRTDQTR
TLCMNTLAGA VTLFTEPGST VSAPVVEGPL QFDWIRLLRG DEDLSGIPTK AIELFRTYPP
AASVAEDFKE ELAATVIQSN PSRALYGAYL RWAFDVALQL LPQWVKVEQH HARAIGIRED
GDRDVITLDN SEMISADSTV LAVGWQTPAP NAEELSIAAA LEENPDLVWV KPGNPVEQDA
SLIPAGEQVL VRGLGMGFFD IMALTTIDRG GIFHEDPSTR SGLRYEASGE EPHFVISSGR
GYPYLPKSDY KSLPPGAKLA RLKAVIAAIN AQNRGVASIN YDAEVWPAVA RDAYEAYYET
LDRVSPESIR TGLDKIVEII DEVDVDKLPK ALAAHTDDVF DLHAWEFPLA GINESVEALT
ARIADGMARD IRHAVTAWDS PLKSALWSIS AARKPSSILG AEGRLTFESR RNRFAAVMAI
GQMVGSGPPL FRTRELLALV DAGLAHFAGA RPRLSVSDGQ WQISSPTTGD TPLRSKVLVD
AWMHNPDVRR NADPLALSLE DADRVRPFND YSVDGTAAPT GSPEVDPATR LLVHPNGNLD
PRVHLIGIPT YGQLADTTIS PMPGTNPLML QETDKTAVHV LKQLGLI

> aaRXA01011 (1-1233, translated) 411 residues
MSDLIDMLVG EDLPQLRDNR PQARDNAQKS FEALLEPVNP GTFSFGERYA VATYVAGLHQ
FAPAVDLYQD LLLDDAPTTL ANAVSDAIDE GLSAGPYGTY REPGLESESE PGGSVRNDAA
KLGERLAAAF DYAHLLVFHP RDSRPEVLGR LSGAGWSADD TVTLAQLVSF LAFQLRVAYG
LRTLKGEDIQ VKAPRLSIPE AKWELSNNGF EISTYEELNR PEAFVNHSLG WKPWVPPVAK
ADLTEEQLDS LIQPERADMP YFRLLARDPA ALKARTLTDL DIFFNTDGEG LGRAERELGA
TVTSRYNGCV YCASVHAGRA QEESGRADDV NALLASIDSD LGSDQWNVIR DAARALSSTP
AAFNQGCITK LRGVGFSDLQ IVDLINSVAF FNWANRLMLS LGEPEVPKRF L

> aaRXA01016 (1-648, translated) 216 residues
LLPYAIVGLV ILLPSSWLPR WAVAVLGEVS LVPAVVFGGG FLLIPSMFLI GSALVRYGVV
DRAENAPRAM GVFFAVSAAI AIPTLIIQAR DITSSGFSIV STVAGLALGG VYISLVLLAL
HTPIRGALAA VFAPLGRMAL TNYIGATILM LIGGLIVDLP HSTSWTATVL LAAGILIIQE
LLSALWLRHY TQGPLGYLWR WVTWGSRSPF LTRSAS

> aaRXA01017 (1-609, translated) 203 residues
MAQKVTFWFD TTCPFCWVTS RWIKEVEQVR DIEIQWVPMS LAVLNEGRDL PEDYKERMKA
AWGPARVFAA VATDHADKLG DLYTAMGTRI HNDGRGPIEG SFNDVIAEAL EEVGLDAALG
EVADTTEWDD ALRAFHQTAM DEVGNDVGTP VVKLGDTAFF GPVLTRIPRG EEAGEIFDAS
FKLASYPHFF EIKRSRTENP QFD

> aaRXA01021 (1-522, translated) 174 residues
MSSSESSRSE GSQPAPSVQP ERRADSTGAP AAASKEASQQ MDAAGVLEWA RTAVEQLSER
RAEINALNVF PVPDADTGSN MTYTMTAALD EALKLGELGD VARITEALAV GSVRGARGNS
GVVLSQVLRA IAQAAADGVI DGHTIQEALS IARSLVDRAI TDPVEGTVVT VLRS

> aaRXA01023 (1-951, translated) 317 residues
PANGGINKTP MIIALVLSIV LVLAVLFGAR VLLGPAGQQQ IAMSGLPAPD AESAECAALL
EDLPGEAFGH TRAEIMDPVP PGAAAWSTSD LERVTLRCGV DMPFQYTALA NTVDVDGTTW
LPVSDMTPGS SLETWYSVNR FPVVAITADD ISTDSADNPV DPFSSAVDKL EKRDGQPFDA
PLTGLSSAGT TCTSLFDALP RQLEVGGDDG TTYERIEEDR MQAAGYSDDA VAWDTPGLEP
IVIRCGVEPS ENYAAGAMLQ QIDDIPWFED TILASGTTSS TWYALGREID IAVSLPQAAS
SSLITISGFI EDTVPAE

> aaRXA01028 (1-624, translated) 208 residues
FYQNILASSR GSNTFLFSVP YIPATEGEET HPATDTSTIA TPTLSFDAYG NKAEVMPTQS
TVDKRVPSLL QYYTRTFHVR QDTQQAVFDV IGANPVLIAA AKAASISPAS ADSRRKKGLA
STNADPVAKH VLEIAGADVE SLRHEKDLKV TKHTGQDPAL PVVVFNQTIW HNPNDDVINA

LLGAIDQDAY IDMAISSYNK SWHNIIPA

> aaRXA01029 (1-489, translated) 163 residues
MLQTISFKKL NLLTTLKRKG ELVIMITRHD VPYIIAPPVY AIFASLMTTP PWFYRTTYTI
DGFDFKISWV YTITIYISLM ILIIGFYQAN MRKACPYEED PLVDIWHKVW STALFILPIV
LSIAVYSLIT QRGFDWYVMV FILPVGLMIA YGFFKPCDCD KHR

> aaRXA01031 (1-666, translated) 222 residues
MKLLQYAGGA VYVDPEDSAQ SQDLDASTAR DVIDATNTAM TTITSRPTMI VHLHKVRKVI
EILCNPALGG EPVNIDQDET GKQVYTPTPT LVAYRFISDK EILLHYLAQA GVQGVEVFDG
SPDMLSRWNA GRIPVLLLQP ASAGHGLNFQ HGGHRLVWYN LPDNNEHYMQ ANARLHRIGQ
KNPVTIHRII TADTYDANMP AILAGKANRQ QRLIDAVRRD PV

> aaRXA01032 (1-375, translated) 125 residues
MSDHDAPQTP IPKGFWQQID HQLDRLGTQR PETFAALRDI LLDPAYTAIV HDRNRYGVVT
FDTNSAFFSG SGGDNGLADV LINCDWRMTD YRAEYYYVMT HKYTKESFTY IEGDVKRGDL
IPPNN

> aaRXA01033 (1-336, translated) 112 residues
MTQIAMYLAG PMTGIPEYNY PTFHAAANKF RAAGYTVLSP AEDEYESQLT APLPENAEHK
YDHYLRLGIE KLLKADAVHM LQGWQSSAGA TLEHDIAQKL RLAITYEEPP AS

> aaRXA01034 (1-354, translated) 118 residues
MDMAIIQSVE YTSDVSHERI TNVVSVGVVY EGKQYVVDLN GDDIDTELDM ITLKEVIKIG
REESARQIRR GSVDAELHRK ARLWAIDNDM AVGQRGIVPQ EIIDAYKEYC EKEGIPFE

> aaRXA01035 (1-606, translated) 202 residues
VLIRIAEHQG RLHVHSPYSK AFAARARKLN GLWSPETKTW HFSPDKEQPV RRALKDVYGW
DEFTTPELCT VQLTVTPEAV LNKHTLTIAG VTLLSRLRRN YSVWLGDNVR IISGNFPEAA
GSPQYPLIMG VKAQPVVIHV QEFPVDAVST IPPRFNPIVI TAPPSIDIAA LRAEREQLTR
RISEIDKKIA RAVHPTIQTE AA

> aaRXA01036 (1-453, translated) 151 residues
MHTVGYKLDT DLRKLTNTDV LDLINALFGT TVTSADDEAA DFIDSDPQFA VLVELAYHDC
ARRAAMGLSR VQQLIYDNAA KSTYYRSVAA RHRKHIRELH EQTQRDGIHF DNPLSRAVIN
DLSMSMNRAR LNRIASWKSA GVQRYLNPTI S

> aaRXA01037 (1-528, translated) 176 residues
MTTSSPLKSK NSLNGAQTTF VRNCVADGPT EVKATIDARG GIEQLRDNEI SQLPDKLWFN
SATSASNDEF TTDNIRLGLL YNMALNKASA HRYELAARWY AIVSPQPSQE ASHKRIASWH
LTQLHALVTL SRTLGVIIPG DEIDALAQSM ENARQVGTEN WSTVTMRTYV TNRKAS

> aaRXA01038 (1-747, translated) 249 residues
MTRDIFHEAA KLIAHLGWRD AFPALQRTDP APTHAVPIRA FDLKAGAVIT DENRSNAYIY
DTLVITQPYK HELPHQNTHP FEWALEQIAT LDPAFSIKLD RSVTVPEIGL YARTLHDLNT
RHQDFLAQRN AMLLVVARRG VDPKNIADVL GLTTNQIHRI LSATPADSPT DLGVNPATTM
GDVVRFIKKR RTTMQLRGTA VRALLYHGLT PAVISRLSGM SRAGVINAAK AFPTTINHKV
KKRKQHFHV

> aaRXA01039 (1-576, translated) 192 residues
MAIKGAMPKN RVPGVAAGAF IAAAVIAGGS GVTFLAQGGG DVNTVAVVEP QDEVKNQVVT
ETEIVTKVHD PSSSDASDAD SNTGTAEGAD SDHKEPREHD SAQEPTAPTD PTLTITGNGD
TPVSALDAVA GPARPGTVHV IENGETLSSI SQDSGVPVGL IIDRNKLVDP DLIYAGTPLA
IPTEQELAAA IQ

> aaRXA01040 (1-903, translated) 301 residues
MTYPVTPQPV QPAPVAEKIK ASSLKEGTQV FIKGRVNYSR IASFITGTER ENRNRDRLHP
IEFDYTSLTL SHPEIIYGNP QQKTNEELFL EQRIFVGKKR PEEGPKFSID NKSNRLPQVW
VPSTNADGTY EQLEGLEGEL DAGLNVIILI EFYKPRTQVN RGSRLNAVFL QEPIRYYTPG
YNADKLAALG IVLNAPPKDT IQLVPNEVAA GQDQSTTDAS GLPLPGQGYS APDQPYQAQP
QYQQATPAAA PQQYQAPQPQ YQQSAPQAQP APAPVAQFQQ ASASGTCSAS TAAVSGTTSC

R

> aaRXA01041 (1-153, translated) 51 residues
VPQAPAVQAA PAVAQAPVAP VVDMTEPASP WDLPAAPSQP AQPAQGITYP A

> aaRXA01042 (1-1278, translated) 426 residues
MVNPFHTLDN SPFDPVAQFP AFYHNPLINH LGRRRAWTIS DINKRPINVQ QMLTTATYGS
PVIHGARIED AATSLLTLDE LRTQIPTAAN NAFYLDAVQD GCLILDIEKT CPPEVAATLL
TLSPTAFYTE VSMSGRGYHL VMPIPENFAA FPAVHNKPSI KHPKRWFEIL TSQWITFTRQ
PIPEHVLHHS ESANTSAVPW LNDQPLTWEN VFADLAKTVA PNLKTGAGLT ITPNALMPPD
LSDAERIRDD EVIDSTCRLF AEHYSKTLAD FYDDASRFEF SQIGVIINLL LPTMRMHPTT
ISLDKPINSD HIIRLLFAVA TRVITHRSKH DEERSGVPYL MYQVISCLDM REHPDNGDYR
VVPSRHNRDQ HSNNPSAHVV HQQPQPQPSA ADSPHHYRAL PQENTVSEHS FKIYNPPATP
PLGGEN

> aaRXA01043 (1-573, translated) 191 residues
MLKFRIISTV TTGSQPTPRK SWSHPDTTLL VTMVTAPSLC SAINVWNATE RIPAQKILNV
EEVHVLGECS DAIISTSLTK KDNPHALVPD DFDQIGDVFG YAQDNVAVFD VIVAALGGAG
YGLLPGLVMH HIDEHTVALV FDTDSPTGTH ILGERCVYSD IIHMTDDKSA RGWGAVIAIA
RAIILKVEQI M

> aaRXA01044 (1-1257, translated) 419 residues
MSLYLDDTLS RIVELDLKDT RIVPFLAGEP GIGKTSFIYG IGERAGYKVF SISVNTLADK
GDLTGARTLQ DPADGKWKQM FFPHATFVEA NDYALANPNE TVVILLDEIN RTDSDVTSAS
MTISTERRVG TTDLAPNVRL AVTGNLTGNV THLDSASLTR FSLYEVKPSA ETFMNIMGGR
LNKYIRTVLT KYPEYIFMKP TTATALITTG DDDDDHTTNA KQMMDFNAVL GSDQDMVQFT
APRTIEGLSV WLNNADDDFL RLLLQEKVDG LARSMSLLQA TLESHTGDTA FTAEVLSEMT
NDLLSSASQA PSGPIKPFVY DRLAAAPSNT VLEQEVHTLS LNDRADVLLF ALHDTVNNAA
PSIIAHLASE GVLDELPKDR ISKIVSLGPV PTANYHALTR QDTTLTRNLG PAVLGFLES

> aaRXA01045 (1-1824, translated) 608 residues
MVTFSVANHA PHTFSPFDIE PPLTGNATTD EHGYEHTSVL EKLASNHLFN PINPQHPVTI
TATENGSTVD LDAAALAQHL ALAITPDSML ANHQGYNRDM MGLLSQLTNH VGFDRRFIVD
QLFISQVLKA NRLPAPANNV IYTVPNDVIP SAKDILSTTA KMNNPLTVTA SAPITVDDIH
TAYEVFFASL ASVFFPYTYG AVFLNNAEFV EFVDYLINEA TTLHSASLIS NNTFNRFQSM
RNISIDNLTA EFLLRKNEAE TTDDYSFPRV LVSLLHSWVK LNHDDARANN DAPTCALAPF
SVAQWIMPET IVFINAEAHA HASSQDIEKK WKEINAALTG SIRIMSPNAI SKLQSAQHLG
MQAQMQAMRA RKDHHNMQKR SSQENDFSKA LPSPQTIVLS VAEVLRKLTH VRQSHNPQKY
QKKSLTRASR RHPDNPNVPG TIKSKLFYPD LHVYVDTSGS ISEESYRNSV VLLMQLATKL
DINLYFSTFS HVLSEEVLLP TKGKTPQQLA ALISAIPKVS GGTDYHQIWD YIQINPQRQE
RMNLVLTDFG FMPNRGLNID HPSSIFYVPI LPDYGSWSMV RRDMSHFANE MVDFDPYIHS
RLLGVHGK

> aaRXA01046 (1-1779, translated) 593 residues
MIPFPGQPQQ QSAPNDETRF IDLNERHKDD EPALFRDDVI DQTLAILISK NKPNALLVGP
AGTGKSRIAE DIARRLANDD VSIPDQLVGH RILDVSIAEL VAGAGVVGQL KKRILDLIKY
ATDPSNKVII FIDEIHQIAG DQSSHSGSQA KVAQILKPYL ARGDLRVIGA TTTQEARDFD
HDPALKRRFS RVNVDEFDRD QTLTILHAAR DGYLKHFNNA VTVSDDVLGY VYTYSQQFNP
GNTAQPDAAL TLFDKALASL TMEKQRLINN HVIAPSLKFP VSERHIHNTA RKLAFGSQVP
ASINTDDARD KLETLFGQDH IIEPVLTAIK REQLGIFPRT KPLSWVFAGS SGVGKTEMAR
ILSRAINGGD PIIINGPEYI SPESITGLIG SSDGYIGSNS KRAKPLDPLI SNPRQVIVLD
EFEKSHPHFQ QLFMAALDTG TMAMANGTTL NFSQAIIIAT TNAARDKIGR DSFGFDSDNS
GVLGSAQAAT DPRAQERLKS LMSKDFLLNC STVSRISLPS TALMQAPTVR FWTISTSVAV
TPCCLATPHY AAQIPADIDS DTLDQLVETT FISDFGARPA ARTIEDHIAS LLM

> aaRXA01047 (1-474, translated) 158 residues
MIDTTANSTS GTLPTLTADQ AAFITGFCEA AIFTATVTID NEPIFLDEAF FLGQETYTDI
LMNQLRTNEA IVKDCLDFFL DNYTTMNKLI VDGLCPDWEH HGHDFLLTRD HHGAGFWDRG
YDEYGAQLTD NAEKYSENCL NFWIEPDSDP LIINFEYH

> aaRXA01058 (1-321, translated) 107 residues

MRKLRTASVA LLTAGALALT ATPAMAQSTT GSSASSQVGD ALGASDYERD IWGSSKDFDD
VTPFGSAWYG YTLAATAVAI SGLVYANLPA IEQAAAQAGI KLEIPRY

> aaRXA01062 (1-486, translated) 162 residues
MNEQEREALE DAALEEAALA DELAALEAEA GVQGSVEPYD YAADLDDEDE FDEDPFAQDE
PRDAGPLGEL SSDNHVSEAV AEDTGTSTEE SAQEGSHEES VDNPRDFTGT ATAVRSFRPR
LPVPNALRPG PPIRTQPAVN TDIYDGGQEN TAGATAADVG AG

> aaRXA01063 (1-330, translated) 110 residues
MADEKKVHVR ATLRFDSDTH QRAIYWADRK GISLSAYAEE AIREKIDRDN GVHVIPNSLL
DNRMNQIIDQ LSSFGRELAN NTTVVTSGFN TIIGMTRGDS YLSDDLDDLG

> aaRXA01066 (1-726, translated) 242 residues
MRRDSFRDRA LVVKTYDFGE ADRIIVLLTR DHGIVRGVAK GVRRSKSRFG SRLQLFVELD
VQLYPGRKLS TISGADTVGY YASGIIEDFT RYSCASAILE IATHIAGLEN DPHLFEETTR
ALKNIQDSPE PILNLDEFML RAMNHAGWAP SLFDCAACGR PGPHNAFHPG VGGAVCLYCR
PPGSAEVPPE ALHMMWLVAN GQAARIPREH PEQQTTIHQL TTAHLQWHIE RKLPTLAVLD
QA

> aaRXA01068 (1-1071, translated) 357 residues
MPTNQPTPAQ IKRWRGYLAN EQAEAAAYRD LAKRREGEER DILLALADAE HRHAAYWVEK
LGPDAENPPK ADVKTRLLGF LARRFGSVFT LALMQSAETR SPYDDDADAS RQISADERIH
AEVVRGLASR GRERMSGNFR AAVFGINDGL VSNVALVMGV MATGVPAQIV LITGISGLLS
GALSMAAGEY ISVRSQTELL DASLPDPKAR EALHALDVES NELELVYRAR GMSEDEARAK
ASQVFQRISD QKRISDNVLG STEIQSAGSA RSAATFSFLS FAIGAFLPIV PYVFGMEGLA
GAVVSLVLVG LSLMATGATT GLLSGKPPGI RAVRQLSIGY GAALVTYVLG LLFGMIL

> aaRXA01069 (1-603, translated) 201 residues
VNDLPNLPKL PFNWTWVLAT VATTVVLAGI GLYVYYPSLP DPMPVHWNGS GEADNWTPKS
VGSFLSLILI GPGIILLTLS GMQALLTMQS GVITQRGGAK SANEAHRQWE TYKATSMHMG
WYMFVLNALI LVMILNEFRP NPLPGGFIIG LIGIIAATIV LLVLIGKTTT SLAKKYPMPD
QDGKTWGIFY NDPDDNRILV D

> aaRXA01071 (1-387, translated) 129 residues
NILYALLALS VIVAIIGIIN TLALNVIERR QEIGMLRAVG VKRGQVRTMI TLESVQIAIY
GAVIGIAIGL GLGWAFVTVM SGEGLDAAVS IPWGQVGLML VGSAVVGVIA ALWPAVKASR
TPPLDAITD

> aaRXA01074 (1-705, translated) 235 residues
LAEAAGLRWL AEASSAVAQV VSADAEQITT VGVETQLPTP DAAFKAGEEL ARIHLAGAPA
FGCPPAGWAG LNYIGTQGQA CLSTPTWGVF YSQQRVLPFA RRARRRNHLT EHALWVVEAA
CDLISELPDD VPPARIHGDL WFGNLLFGTD GPVFIDPAAH GGHPETDLAM LDVFGAPYLD
EIREGYLSIN PLPDGWRERT PMHQLHPLAV HAASHGPSYG VELLHAAKAT LKLLD

> aaRXA01075 (1-411, translated) 137 residues
MDNPVNILNE QEALERLQSV SLGRVVVRRS DEMDIFPVNF IVDKGAIYIR TAEGNKLFSM
NLNHDVLFEA DEVKDGKAWS VVVRATAEIV RKLDEIATAD TLELKPWIPT LKSNFARIVP
NEITGREFTL GEEPERY

> aaRXA01076 (1-1020, translated) 340 residues
MTPAHIFSEG PINSVVLSQD EDGNFTTSYQ DTFSDPSFLG EGDVLIEVGW SSLNYKDAMA
LKGDKGVVRT VPLIPGIDVV GTVIESADPR FGRGDEVVLN GAGLGENRHG GFTQRLKVPS
EPLLHIPFNF SAQQVGALGT AGFTAALSVN ALVDQGIKPE DGEILVTGST GGVGSIALHL
LNKLGYTTVA VTGRREAHAE YLTSLGASDI IDRAELSEKG RPLQKGRWAG VVDSVGSHTL
VNAIAQTKWG GIVTACGMAQ GPDLPGTVLP FILRGVHLVG INSVDAPREL RRRAWALLSE
HLDTAVLDDM TTVIDVKDVA QAGEDLMAGK LHGRTAVRVH

> aaRXA01078 (1-834, translated) 278 residues
MSNAVPHNVS FNFVPRAYRP EKPRTFGMTE IRAPYYSTFG TRHLQDVFDV AGQWVDGIKW
AGGSFSLVPT EQVRAFSDIA HENNAYVSSG GWIETVLRYG DDAVDHYLKE AKEVGFDVIE
ISTGFIMLNT SGLQRLVEKV VKAGLKAKPE LGLQIGSGGD SGEAELAAEG KKDIGDLVDR

GKKALDAGAS IIMIESEGIT ENVTEWDTGA AASIINGLGL ENVMFEAADG PVFEWYVKNY
GNECNLFVDH SQILQLEGLR QNIWGNKSTW GRVINPAP

> aaRXA01083 (1-276, translated) 92 residues
MFPRIPLAMC AVAAIPAVVL RFSELSASPV ATMLIFGTAV VAASFVLAWA AEAVRKDISG
ALAVALLALV AVLPEYASET VVEHTYQTSA AN

> aaRXA01085 (1-957, translated) 319 residues
VTDKARNRDV HNEQQLARGE IGEMRSPMWV EVGAAILGVF VLVVMWLAWG GIGLLIQTMM
NTGSPNDKEL FDELGVRPYY VAVEQQIGTS SAHTTCYQPL DEFGNNFGDC TRSVPKEPVW
YADYVASVFA EHGFDAPEPI DNSVGSWLLF GHVGIIRVTF VIAVAAGVYA MSRAAMMRQL
ETQNVAVDTT DINQHTNDAR LAIPQEIVRD LSLFPDVGAH SPVQPSSMIS HVMLSNKGLK
KVDVTQFAQE TIIDNDTGEI VSEKGEVLYD GAGQPITKSL PMIDNEFSHA IFDKSDVPNL
PELRRFFNPA KIEWNPGGS

> aaRXA01088 (1-1182, translated) 394 residues
MGLWIDATAG VAGDMLLGAL IDAGAELEKI QQVVEAVIPG DVLLRTEEVV RQGQRGIKLH
VDAQHEHHHH RHLSTIKELL VNADIPEQTK QDALGVFELI AIAEGKVHGI EPEKIHFHEV
GAWDSIADIV GVCEAIRQLN PGLIAASPIA LGFGRIKAAH GDIPVPVPAV AELVKGWPTQ
TGALMESTEP VGELATPTGV ALIRHFATQD GPFPGGIINE VGIGAGTKDT EGRPNIVRAI
LFNTSRSNPD TRTLVQLEAN VDDQDPRLWP GVIEILFAAG AVDAWLTPIL MKKGRPAHRV
SALVDSSEVE AVKTALFAAT TTFGIRSWEV EREGLDRRFE QVEVDGHTIN IKIGSRDDQV
ISAQSEFEDI RSAAVALGIS EREVVARIPQ GTTE

> aaRXA01091 (1-471, translated) 157 residues
MVPNTVLIHD ETADLATQIQ RLEHIMACLR DPVSGCPWDI EQTFASIAPH TIEEGYEVAD
AIAQEDWPEL RGELGDLLFQ TVFHAQMARE AGHFALVDVV KAISDKMVLR HPHVFGAQSN
AKSADQQVKI GKSSRRPSAR AKRKRAFWMA SRWDCLP

> aaRXA01092 (1-180, translated) 60 residues
VETAAFVAEQ LRSFGVDEIH TGIAKTGIIA LIHGREAGPV VGLRADMDAL PLTEITGVYY

> aaRXA01096 (1-699, translated) 233 residues
MKPRVLSALG IGAGALVVWI SSRMNWVTIE AFDDKSGSVT QSIVGATWST EIMALALALL
AAFAAALVLK RMGRRIIGGI SALIAVGASL SPLALLTQDP DAERARTLLT SGVASQKANS
GTLLSDWAEI INTTTHPLAA VVAMIGCALA LVGGVVLAMR PAEDTAKSNQ YERKQARAEK
IHTDLAQDPD SGRVMWTHSM KTLTSPRRLR NPKKPQVKAR VWHPDFFRHV CSG

> aaRXA01102 (1-1245, translated) 415 residues
VAVLVAVAAA FGSWSLLLPV VPLAVLNNGG SSAVAGATTG IFMAATVITQ IFTPAALRKI
GYTPVMAFAA FMLGVPAIGY IFSVEPIPVL VVSALRGIGF GALTVAESAL VAELVPVRFL
GKASGMLGVF IGLSQMLFLP AGLALGDQFG YNVVYVLGAV IALVAAVMCL RIPQVKAAAK
QQPQVSEQER SVSTWKLVLV PSLAVTSLSM TFGAVSSFLP AAVIELDPGL GAALAGIILS
ITGGSSMVFR YLSGVIADRR GVPGTTMIPA QIIGFLGVVL ITVTIFQGWS VWLLIIGAVM
FGGAFGMVQN EALLSMFFRL PRTRVSEASA IWNIAFDSGT GIGSFLLGIV AASLAYSGAF
GSGAVVILFG IVLTTADRII GRHRITEYNN TRARLRQVPV ARRAVQGLRN RRKDR

> aaRXA01103 (1-225, translated) 75 residues
MNSSPISDMV TAAVQNEPDA GDRWFIYGLF LIAGLFFGGA WSAYKSENKI LMVAAGLIAV
LAVAGGILWL LGEMT

> aaRXA01107 (1-1200, translated) 400 residues
MDFTSVNDRN VPAPNTSIPF PVDLNRVTEA VDSLGYHYLS SEDRIIVPWQ DHRISMYFSH
ESGQMLTILG RTRLNLDMFA INDAARAVTE WNAERIGPTA LVHLGNDGEV ELKFRTTICI
DEGLSTQQLR QFINLSLDTT AMAVTYILER FSELNFSDTG SPDDTNNADE LSDEQDQADL
VEKIRGLYVP TPVEELIESL EDAEWEESDM ADEDAEDDYL DDDSEIEWET DDDYFEPEEV
DMDELLNGFL EDSDIPQEVT LERIRAQLHA IGVVKTSGED DFIIAWINEV FLGFFVDNGP
TFLVKGHWDP SMDPTRDFMK LFMMCNQWNE NSLTTKAFCH TDDKGLQVRV EFAVSVAEGL
NDDQLQHNIA LSIHHILQAI DSISTEATGS STVEWPEKNR

> aaRXA01108 (1-651, translated) 217 residues

MTYPGITSDH NPYDGYTGDD GAGNKRNLPN RKKINKSVGV YAGVFALTLA LYAIGGAAWG
LLRPTYTAYV EDAETASIAV ETNTSFAGYA WFAIATGVLA AAIALFVFLR TPQHRGPVML
LWLGIVSIAG SVAFLVFGNV ASTMLHGSPS DYASAIGASF QVAPTITPGV AFGVAPFLSV
CMYWCAAFVT PEEEIDQDDA GQGTSKASGS EMTGASG

> aaRXA01109 (1-642, translated) 214 residues
LSISLSSKKV AFAALMVTPL LLTACGSDSS DTEAASSSAA TTTNSSSSSA ATSAEAAETT
SSESESSEAT TINEEQQAQL DVLSQELSEN PITFAEAAPV ENGETASPED TAAIEALVRG
YTDTNTLRSS LAYTINNTCT RVLEASGADA TQLDLNTIPD IPLGGEGTGT VDSITDVVVN
GQEASAWVVA TAGGTTDSAT QRFFNEGGQW KFCD

> aaRXA01119 (1-930, translated) 310 residues
LAGVITGFAI ILSVIGVGFL LAKLGVINDD KQRLVLNRIA FYAATPALLF NVVARSDPSA
LISPVIVVTF VATIVTAAVY CVISAIFFKK DIATTATGAA ASAYVNSNNI GLPVSIYVLG
TGAYVAPILV MQMVIFAPMI LAALTSGDVK GSRGQKIWAA VKGSLLSPIV LASIAGLIVC
LLEIQLPAAV MEPTIILGGA SIPLILMSFG ASLPSTNVLA SKADRPSVLT ATAIKIVGMP
AITWLIAKAF GLEGDYLYAA VILAALPAAQ NVYNYAATYR KGEIVARDTV FLTTFLALLG
MLGIAALFGR

> aaRXA01121 (1-678, translated) 226 residues
MNPEFIHGAT EIETTNRGLR PHRLSKEIVE RYCDPQFSAM ERQPSGVRVV CRTTATSVTL
TTYSTRVVYL DSGRPGGKID VLIDGAPTSS TPTSGGETTE VNFITGATER RLKDPQVLTV
DGLSEQEKVV EFWLPHNEEI EVISLKANAA LNTVEDTRPV WINYGSSISH GSVATAPTKI
WPAIVAQSKN YNLRNFGFGG SAMLDPFMAR LIRDTPADLI TLEIGI

> aaRXA01122 (1-522, translated) 174 residues
MPFPALLLPL IFWTGIAALS SWAVSRALPL RADNSIEIDA PVEKVWDFIE ETNRVPEWNE
HILYVQAPGE IEQGMKLKMK TRHPETNRLT LKFRPTIDVL RPHRELTWST KIVARWLLTV
TDTIELKPLE DGRTEVDQSM SFSGVLSPGV PFLASISRIK ENSNRQLKAL IEAE

> aaRXA01123 (1-447, translated) 149 residues
MRTLAAELNI KAPSLYKHVK TREDIAAHIA TKAFIQLGQS LHEHCESVED LLAEYRSMAR
ENPNIYRLLT SSEFPRELLP EGLETWAGTP FYLVTGHDPI KGQALWAFAH GMAILEIDAR
FAGPNNGSPA DGVWEIGARA FDTQVFDQG

> aaRXA01127 (1-279, translated) 93 residues
GIGLAASGNI DATGTNPSMF EPVHGSAPDI AGQGIADPTA AILSAAMLLR HLGDEDNAVR
IETAIAADVA GRDNSQPIST TEVGDRIVKA LQS

> aaRXA01128 (1-1014, translated) 338 residues
MSFTFIRTFF VLFGITLLVS CVPEPPDSYT KESTVLRYQV SDFNLNFVEL AVALGYLNNI
ELQVVGSVQG GVESIESLKK DDIDFAAVPF IGLVAGEIAT GAPIKAVAAS YGISHDSSSA
LLVLKDSEIH EVHDLIGKTV GINTLGALGS AMVERHLFDA GLTEPEIVSV TQRALPGEYL
EQRLYQGQVD AIWVTDSAKH QALETGDFRI LAEDSDLVQE LNTGCMVVSQ KLIDEHPAVV
GELVDGVAQA IEFERSHSPE EVREVYFNYL EAHGQSDRIS SFRYWEHSGI ATRGGVLSDR
EFSMWSHWID RQYDVPDINP ASIYTNQFNP YRKVNPSP

> aaRXA01129 (1-1866, translated) 622 residues
MVNLMSVELE EIRDFLAGFE PFAQLPAEEL DQLPGKMSLR YFRRGEEIIP IGVPNHYMGV
IRSGAIDVLD QEGVLLDRRD AGRSFGYSTM GPERNSRYRM VAVEDSLVLR LGRDDFDELA
KRNPDLNRYY SSWSKRIRAA ADQLRQESSS KVLRTKLGEF KIANPISCSP DTTIMDAAIK
MHEFGVSSLL VQIDGELKGI ITDHYMRSRV VAKHLDIQLP VSEVMTVDPR CATSQGLAFE
AMLLMSELRI HHLPIVDDGQ ISGIVTAADI MRLLRHDPIY LTADLSRKNT VEELANTFQS
AAEVASRFID RGASAEEVSS LLTVAADSLA RRLLVLAERK FGAPPVPYCF VVVGSQGRKE
MGLASDQDNA LVLDNSYNDR EHGQYFAALS EFVCQGLDRA GQVLCPGDMM ASNPEWRKTA
DQWISTFHSW ITAPEPDALL HAQTFFDFRG IYGDTEMAKD VHQNAVNMAR GARRMHAHLA
SLAARRDPPL GFFRGLVVER SGEYGATMDI KKGGTAGIVQ MARLYALATG SDAIGTRERL
IAASGHGQVS RKGAQDLLDA FDFLAAMAFQ HQARLIKVGE KPNYHIDPKT LGKMDREHLR
DAFSIIKDMQ SALATKYPVR NI

> aaRXA01131 (1-867, translated) 289 residues

MPPATLFNVL TSAGLDPHQS GDAIVVESAH FTLTFTWDEW LRAQATWVGE LSASDYVRSI
VAINSAHDAR ATPKMMLDAP TGLTTVLKAD KGQLQAFAVE ALPIGDGLSE AQLAGFVAAA
FDGAIDLTRE FHALYPERSP QERGAMLNIK LVDASPSQTV TPVRVANWFM DQGVEEVPYD
AASGRISFEL GDTPVDVILD DPELLKIQAV VVADRDVEAT EVLHLCNRAN LDSDHSTIFM
RSDGDDVDFV ATVAVPIRAG LNDFQLSQAL HDGVVGVVGQ VRAVINQLH

> aaRXA01134 (1-459, translated) 153 residues
SATQDTGVWK GIFALLMGRG ARDWRTGQQF DRWTFDELGC NFHQIFPTKW CKERGIDPVL
TESVLNRTPM GRRTEVVIGD TPPSRYLSRV QSKSLMGDEE FDQMLDTHLL SAEDLHSSNT
THFFASRRTN FIDMVEDAIG KAVIRDVNES DLT

> aaRXA01137 (1-360, translated) 120 residues
VRPTFVILRI SEYFGVAEAA INAATGRLTS LSEVFIDNAA EIQDNLSSLV ALQKDLAERV
NVEGVNPVTP VDLLELRLGS AQLAVAATAI EVRVAGGAGY VKSSSTSRRF RVEMGACTGP

> aaRXA01140 (1-786, translated) 262 residues
MALDTRGEEM RFRPRALSGA PDTGKDPGLL LLDGQQRLTT LYHCFSGDGY VNTVDFRSKK
VTRKFYIDVA KAVESPVMSD EAIFSVDETG KIISHFGPVI DGGITDLETA LAHGCLPVSV
LLDDNGTDFL FDLADMAGEG AREHAKRFQS QIVKTLVSYD IPMIRLDRET AKGGIGSIFA
QANSSGLQMD VFDLLTAVFA ADESVETEFS LRDDWVRVER NLRQHSALDG IGSTEFLTAV
ALLVSARKGH ASGYREDILN LT

> aaRXA01148 (1-600, translated) 200 residues
MTSPVENVKK KPRPLALSPS RAGDYQQCPL LYRFRAIDRL PEPKTVAQVK GTLVHAVLEY
MHKLPREERE YPAMVKQLKP TWAQMCEEDA ELKELVPEDE LYDFLVDSRT LLRGYFEMEN
PQGFDATECE MYVDTVLPNG VPVRGFIDRV DTAPPAKSEL STTRLARNQS RSGASKRSSR
CCSMHWSTGA CSMKSQLSFV

> aaRXA01153 (1-543, translated) 181 residues
PFLSPIVTST HAVVAYSTAR GFGEHRVRWD YAQESPLRDT RGFDLRRYHQ APVVDPHAIG
VANVFVPNGA RFYVDHAHPE YSSPEVTNAW DAMVYDAAGD HILMQAVSDV ASFTSQNRSV
LDGHDPCPAL KIYKNNVDGK GASYGFHENY LYSRETDFDV LAQALIPFFV CRQVIIGAGR
V

> aaRXA01154 (1-603, translated) 201 residues
EGIINTRDEP HTDADHWGRL HVIIGDANMS QTANFLKFGM TSLVLDAIEA GVDFSELKLK
NAVSEVAKVS HDLSLTHQLR LADGSELTAI DILRRYLDKV QPFAETPVEQ RVTALWGEVL
GLLENDLLST SHLLDWTAKL ALIKSFEARG LSINDPKMYL IDLQYSDIDP QKSLYHALVS
KGRMKTLCSA QDIADAAATS P

> aaRXA01155 (1-1365, translated) 455 residues
VESALTRRIM GIETEYGLTF VDGDSKKLRP DEIARRMFRP IVEKYSSSNI FIPNGSRLYL
DVGSHPEYAT AECDNLTQLI NFEKAGDVIA DRMAVDAEES LAKEDIAGQV YLFKNNVDSV
GNSYGCHENY LVGRSMPLKA LGKRLMPFLI TRQLICGAGR IHHPNPLDKG ESFPLGYCIS
QRSDHVWEGV SSATTRSRPI INTRDEPHAD SHSYRRLHVI VGDANMAEPS IALKVGSTLL
VLEMIEADFG LPSLELANDI ASIREISRDA TGSTLLSLKD GTTMTALQIQ QVVFEHASKW
LEQRPEPEFS GTSNTEMARV LDLWGRMLKA IESGDFSEVD TEIDWVIKKK LIDRFIQRGN
LGLDDPKLAQ VDLTYHDIRP GRGLFSVLQS RGMIKRWTTD EAILAAVDTA PDTTRAHLRG
RILKAADTLG VPVTVDWMRH KVNRPEPQSV ELGDP

> aaRXA01156 (1-201, translated) 67 residues
VSVVNAKQTQ IMGGGGRDED NAEDSAQASG QVQINTEGVD SLLDEIDGLL ENNAEEFVRS
YVQKGGE

> aaRXA01158 (1-942, translated) 314 residues
MSIVEHIKEF RRRLLIALAG ILVGTIIGFI WYDFSFWQIP TLGELLRDPY CSLPAESRWA
MSDSEECRLL ATGPFDPFML RLKVAALVGM VLGSPVWLSQ LWGFITPGLM KNERRYTAIF
VTIAVVLFVG GAVLAYFVVA YGLEFLLTIG GDTQAAALTG DKYFGFLLAL LAIFGVSFEV
PLVIGMLNIV GILPYDAIKD KRRMIIMILF VFAAFMTPGQ DPFTMLVLAL SLTVLVELAL
QFCRFNDKRR DKKRPEWLDG DDLSASPLDT SAGGEDAPSP VETPEAVEPS RMLNPSGEAS
ISYKPGRADF GDVL

> aaRXA01159 (1-315, translated) 105 residues
MSLGPWEIGI IVLLIIVLFG AKKLPDAARS IGRSMRIFKS EVKEMNKDGD TPEQQQQPQQ
QIAPNQIEAP QPNFEQHYQG QQVQQPQNPQ TPDYRQNYED PNRTS

> aaRXA01160 (1-975, translated) 325 residues
KSSNKISDLA RQLNLLPYFT RYKGRTVMEA ARDLGQPSSQ IMEDLNRLWM CGLPGLLPGD
LVELDHSEKE VKIHNAQGMD KPLRLTPTEA GVLLLTLESL ESLPGIAKQE AVVSAANKLR
AIMGEYSSTV FDSTGEDLDA EVLEIIRDAM DLHQQVSFEY HSHRSDNTSL RQVSPAHIFT
HEGETYIKAW EEAVNQWRTF RLDRIRSIVL LDSKAVHPAR GVSVSTDDPF EFAKSSDIAT
LLLREDAMWL GNYMAMEVDE TVEPIRDSDG FSWHTVHFPL LSRDWFVRFA IGHAEHLKVT
SPEDLRKCIK QKAFSGLSAY DHHVE

> aaRXA01163 (1-705, translated) 235 residues
MGYTNLNDTR VLRAGSCDAW WRTMSPLVQQ GSEAVFRRIM GLSRRPDRKP GFDDVPHFGA
AVRVPGLKHG TLVNAAPLKV LGARGEPNPA SSYRFEYITG DSAGRAITAT GAVLFSTRPW
TTGPRPAIAM APSTQGVAQH CDPSHTCAIG LNAFYDKPFD AIIAYELPVI LWFLAHGLDV
VFIDYPRDPA TGVQYYCDSI AAAKSLLDAV LASRQLGLSP EAPLGLWGFS QGGGA

> aaRXA01165 (1-573, translated) 191 residues
MVGHVPAAIA IPYFIIEILA FIGVVMWLGF GWALGLLVLF FVGGLLLAGV ELRRISKSAA
IHQASGQGSA GAIAGNIGLT AAGAILVAMP GFVSSIIGLL FIFAPTRALF RKVLAKRMRS
AIENLGVRGF EAVNGYRTQA SYGNFGAAFN GGAQQPSNEP IVIDEDEIQA WTSDLKPEDF
TKGKDESDGE K

> aaRXA01166 (1-483, translated) 161 residues
LTGVIAYAIA GLAVNSSEMF EEIMSVLNER GVSDVLKNIT SCAGGSLLAS GYSSSRGWTH
QGTPLADILD DLPLVVAEFG KQKLGRVAPE IPVLLWGSKN DDVIPIDPIR ELRDSWADKG
TPLTWHESQA PRVPGRTGLN HFGPYFRNLE KYSGWLIDHL V

> aaRXA01167 (1-321, translated) 107 residues
PRQLVKYKTA DGEIYEVPFA DDAEIPEEWM CKNGKLGILM EGEGVESKPV KPPRTHWDML
RERRSIEELD VLLEERIEAL RKRRRNAAKL LKAQQEAEEA EKAAEEV

> aaRXA01169 (1-567, translated) 189 residues
IPVFLAVFVG SDALGSISFG PFVEAFFLLI LIPLVAAAGT QQVARKWQVG RTIMAAAEAI
MVPLMMLTLF AVIASQVEAV SGQFTDIATV VPLYVAFLMV MIPIGGGISK LGGLGFKEQR
AIVFSGATRN SLVVLPLALA LPAGLEIAAV VVVTQTLVEL IGMVVYVRII PLIFHEKQTY
RKLSGIGES

> aaRXA01170 (1-483, translated) 161 residues
VSLSNKAKGI VAVIIVAWIV AMAGMVAYAS SNNADKTFPT AGALEQTVAA FDRQGLQVSA
VALADIYGDE YVSAAILCEG TPTATLEQSL GVDLSELNLD ESGVPSGVSY LALSNQDGEV
VYDKIDRANV DLCATPLNGA FSAYSLMPVA KVGENSWAIA A

> aaRXA01171 (1-693, translated) 231 residues
MSQAAGKFKP MTSTLAESTL TSLKELEDPK ILSVNERHGD DHAVNLTKLR AVAKELKKNQ
PLARELWATD DTAARLVALL ICRPKEFDQS ELDSMIHEAR TPKVLDWLIN YVVKKNPHWN
DLRVLWLEDP AENVAAAGWA LNTHAVITKP DALDDSEILD TIEAQMKTAE PRVQWSMNEC
LAQIGIHRPE LRDRAIAIGE RLEVLKDYPT PPNCTSPFAP IWIEEMVRRK K

> aaRXA01173 (1-615, translated) 205 residues
MHVSTLPNKK LRTRIFAGTA AVALSLGVAS CSNAEDAVDS ATDAANSATS AAGSAINDAT
GTSSASTTEP SGTSGSDSGS DSAGGDTTEV ESADGSTISI PTAVVTAANA AGFSTPESVE
EGPNGESLVT FPEGYIVNSA EGGAQALVGM IGETWIGEGG LSAAVGLPTG PEEATTNGWT
QQFTSGVISW LDDGSGQFAA SVEPA

> aaRXA01174 (1-750, translated) 250 residues
MSNMQGNDSK KSSGASRAES PLIKFRTLII VIFVILIVGL ASIAVGPVVY QLIMGPGVKT
EGIQADGAAP ASTDMNGTWD VAPGSIPNTT SAGFTFAEIL PGEEKITSGS TTGVTGEVVI
EDNSLISGLI TVNMTHITTD QEKRDINVRT KLFHTDQYPE ATFEVTDSVD LSALPDTGSI

AQVVIPGELT IHGETKAVEP TFDVLRTGDQ VIVASDIEIN RLDFGVETPE FIAAKINETG
EINVRIVLEK

> aaRXA01176 (1-504, translated) 168 residues
VRYFYDTEFI EDGRTIELVS IGIVAEDGRE YYAVSTQFDS SKANAWVRAN VLDKLPNPSS
KVWKSADTIK REVYEFLTST GPTPELWAWV GAYDHVLLAQ MWGDMAGLPR EIPRFTRELR
QYWDMAGRPT LPELPNGNHD ALIDARHNLA KFKVCMAALP LGKRDRVS

> aaRXA01177 (1-1986, translated) 662 residues
MHGEKLVDGT EGNLSQFQWR DMATNQTLRK ALLVLSTIAL LLTLWPSIFN VRAIESFVFF
FHIDTDVYRA GANAFLHGEN LYTQDYQVGS IQLPFTYPPI SAALFVPLAI LASSVAGIAL
TLISTVLLWW SVAIVLRRVL KGLTDADSRF VSYLILPMAL STEPVFQTLQ FGQVNIILMA
LVLMDTFTKK PWLPRGFWIG LAASIKLTPA VFGLYFLVKK DWKGAGVAIA SGVGFSALAF
ILSPSSSKIY WTETLNDPSR IGNLSYIANQ SVRGTLSRMM HEQQDLVEKL WLVAVVLCLA
AVAVAMWRVV RAGNPYGAVM LNSLIALLCS PVSWSHHWVW LIPIAIGLGA SAWNQRRTAP
GIAATAGVLA LLTTIPMFIT TFWNMPYDSE SYPFWPLILQ PSGNAYVVVV IAILIVAIVN
PTVLGSGNKA VSGQAEKKSS PALLVVLAIA IFYLFANIWF KGNNQNKALI QYPLQTMEGR
GLTDFGELIF EFAASSNQLV SLWIIGALNA IALAITLWFL LQRFAGKKSS WLIYLSTVAV
ALMMFSVQDA LQFGSLTLVA LALITVDVLS VREIGRRGLL TGLAAALFGW PILIVIGFLI
HRRYAATITT TVTAAVLWIL GILLNPDAFN LNLLRQWFNG RDGRDNLSFY AFLARWVSES
PA

> aaRXA01178 (1-450, translated) 150 residues
MMFVWFIVAL GLGAWAIHRT WSHGFKDLSV ALSIALPTLV LPIVELHHLV LLLPLIAVLL
RQGRVAISYL IGFIYLVSWT PQHLSYSTVF PLNDPAPEGY VAHFGWYLLV EPMAVAPAAI
ILGAFIACAA TTPKTSQLVQ VDKSSAENTK

> aaRXA01184 (1-1473, translated) 491 residues
MGLFGFGIFL ALGLGQDHMG ILAGVVSVGM VAYCIAAFMW PSGEGQLDPT AFSTMPLSAK
QLLPGFAIGT LLQSRGIIAV ICTVATSIIA AVFLPVGSWP MIVFMMAVSL VTTLLLGELL
GALTSGSSSR VSNDRRTVLT SVVFMVFVVG YNMLIGADGM SRIDAIGAYT KWTPFGAGAG
AIEAFAVGLW GEAGLLTLLA FVYVAAGFWL WSQLINRALT APLDQGGQGQ SAKDSAGEGK
KVLFLPGIPW SVGGAIFSRS LRYMFRDSRL LGSMIVFPLL GVLFIFQSFT VEFFMIYVGL
IMMAVFAGSV ATNDFGYDGP SLWLNIVAGV KARTLLMPRH WASMLPGSVS IVVFMIITIV
LAENKTTAVL ICFIGLGIFI SSAAVALLVT TFNPYPTSKP GTSPWGDRSG YSGAAFVGAF
AALLLGWIPT IPTIALGIFG LVTDQMWMII LAEVLAIILP VAVYIGVAKV CIRKVEKDLP
EIFDKVKTHV K

> aaRXA01186 (1-1098, translated) 366 residues
MATPVPLVFN APKRGMPPTH FADLNDEARI EALKELGLPK FRLNQIARHY YGRLEADPLT
MTDLPEGARQ EVKDALFPTL MSPLRVVETD DDTTQKTLWK LHDGTLLESV LMRYSDRSTL
CISSQAGCGM ACPFCATGQG GLDRNLSIGE IVDQVRNAAA TMQSEGGRLS NIVFMGMGEP
LANYKRVVSA VRQITQPSPA GFGISQRSVT VSTVGLAPAI RKLADEEMSV TLAVSLHTPD
DELRDTLVPV NNRWPVAEVL DAARYYADKS GRRVSIEYAL IRDVNDQDWR ADMLGEKLHK
ALGSRVHVNL IPLNPTPGSK WDAAPKARQD EFVRRVIAKG VPCTVRDTKG QEIAAACGQL
AAEESA

> aaRXA01187 (1-459, translated) 153 residues
VDPFETNPND LPTGLDPAYE GNSELNPLGG KNIPDEPEVT ANTPAVQEEP AYSEPETAVE
SKRQAKQNTK KSEPVVAPKQ TLAGGTWVAL IVGALLLILL LVFIMQNQTT VELNLFAWTF
QFPAGIGFLL AAITGALIMA LGGGVRMFEY RRS

> aaRXA01195 (1-447, translated) 149 residues
VIVAVSAVLL AAWRFFTLRS RGTTVILREL PQSGVHGWRH GSFRYNGNDL EYFKLRSLSP
MADLILNRLS VTLLDRRDPA ADEAVFMSQG LKILHIKSKN DQIELALDAH GEMAFTAWLE
AAPDARAEHS LNPRDFNRFR ASKDTRKNR

> aaRXA01196 (1-690, translated) 230 residues
MRLVIARCSV DYVGRLEAHL PSADRLLMVK ADGSVSIHAD DRAYKPLNWM TPPCSLVETP
ITDEDGEATG ESLWVVENKK GEQLRITVEE IHSEQNFDLG QDPGLVKDGV EDHLQELLAE
HITTLGDGYT LIRREYPTAI GPVDILCRNS DGETVAVEIK RRGGIDGVEQ LTRYLELLNR

DELLKPVHGV FAAQEIKPQA KTLAEDRGIK CVTLDYQALR GIESNELTLF

> aaRXA01197 (1-453, translated) 151 residues
MSTEQSLNIP HEYVICLDHV GIAVPDLEEA IEFYRSAFGW VNHHQEINEE QGISEAMIGP
KDIKSTEGMI QLIAPLNEDS TIAKFLEKKG PGIQQMCLRT NNIDALSEHL RRQGVRLLYP
EPKNGTGGAR INFLHPKDAG GVLLEITQPQ S

> aaRXA01198 (1-303, translated) 101 residues
MIVAFSVAPT VTDNPDAEMA DAVTEAIRIV RASGLPNETN AMFTLIEGEW DEVMAVIKEA
TEAISRVSPR TSLVIKADIR PGHTGQLTRK VEAVEERLAR D

> aaRXA01206 (1-261, translated) 87 residues
VSAENTENTD SPFEISEFDD HRRPLQRALK FGSIALIVFT LISLAIWGAT RGVPGVSAVV
IGAAVGAGFV LLTALSVLFT TNSNVTT

> aaRXA01207 (1-648, translated) 216 residues
VSRIYDCADQ DSRAAGLKAA VDAVKAGQLV VLPTDTLYGL GCDAFNNEAV ANLLATKHRG
PDMPVPVLVG SWDTIQGLVH SYSAQAKALV EAFWPGGLSI IVPQAPSLPW NLGDTRGTVM
LRMPLHPVAI ELLRQTGPMA VSSANISGHT PPTTVLEARQ QLNQNVAVYL DGGECALATP
STIVDISGPA PKILREGAIS AERVGEVLGV SAESLR

> aaRXA01210 (1-693, translated) 231 residues
VFPVGIPLLL FLIGNGGAAE SANSFDYFVM YTLLFVQFYT VLSMATTRRD ERVLKRLRTG
EARDIDIIGA ICFPGALLTL IFTVVIIPLL MVLGAPAPIN LVPIVFAVLI GLLLCSALAL
MTSGFTRNAE AAQMTSMPVF MLAMGGLGSI RFVFGDSIVA DILAYTPFAA ISDLVQIGWA
GATFADSVGG VEAANFAGIF QDMLIPLGIL AAWTAAAVWA ANRYMRWDSY R

> aaRXA01213 (1-1227, translated) 409 residues
MTNPTEERNA RRLIWANGLQ NIGDQIVAAK TVLPWLLQAA GAPGFLLALL VPIREAGSML
PQAAITGWVL RQTSRSKVWV IGSNGQFVSA LGIGVAALFL RGWALGITVI VLLAALSLFR
SMCSIASKDV QGKVISKGKR GLVTGRATVI GGVMGLVAGL AIAIFLGSHS PTRVLAAVVI
ASSFSWLFAS IVFARIEYAK PATPKNAPSA NPWVRRCIAA LKDDKAFRRF VLVRSMMLVT
ALSTAFIVAL AAESGNSIDS LGFFLIASGL ASMVGGRISG IWSDHSSKNV MAGGALFGSI
VLILVVLSSA FAPAQINTLV FPLSFFLITL AHTAIRVARK TYVMDMAEGD QRTRYVADAN
TLMGVVLLIV GALSGFIAIF GNEAALLFLA AIGLLGTISA RGLKEVSAG

> aaRXA01218 (1-429, translated) 143 residues
MARLQHDMIF INLPVSDLAA SKRFYAGLGF KENTVFSDEH TASFEVSDAI VVMLLETARF
SDFTKRPIVE KNGSREVLNC LSVCSTEDAD EFVRRAQEFG GTITRELAAE GPMYGGAFDD
PDGHGWELMY FDPEALAQMM PEG

> aaRXA01229 (1-693, translated) 231 residues
MIISTNTAHP LHEPHVPSHH NRMNTLRAGV LGANDGIVSI AALLLGVIAT GASDTVVFGA
GLASTIAGAV SMALGEYVSV SSQRDTERVL IAKEAKELAE DPTAEHVELS EILHSYGISP
ETANQAATEI GQGDALGAHL QLELGIDNEQ LTSPLAAAFS SAVAFLLGAL LPMVSVFIAP
AGWDAGVVFV VTLLVLAVTG FISAQISGTS PMRACGRLVI GGALGLALTY G

> aaRXA01231 (1-504, translated) 168 residues
MLGYTFVIFI LAPFLILTGI AMAPAIRSRF PWYVKLFGGH QGARSLHFIA MVLMTGFVIM
HXRPGFLVHG DYNMVHMVFG DMNTDRAAQA YIIVITTIVX GGVXLXXAQY IXXWXTXXAX
XGXPPXSXEX XRKIFXXPAA SPDEQAXXHL HGQGHLAVPL DQWPAADR

> aaRXA01234 (1-384, translated) 128 residues
MWKFMKTQYV CTTYFIAAPE DEDEAYQTYR SRMNSLAALN GADVVSVADG LRMEVDQDIW
GSLAEQYQIE QEGLYPTGHN LYFVVTVVNL DDSDEVYDRT MEHLIMDDPY VRVDRFPSTV
HASTQIML

> aaRXA01237 (1-441, translated) 147 residues
MNVQFESDMA VQPGNTMEAT VTDIRDAKRK TTQLDSVTPF KKNCPSRTLL DTISDKWAVL
ILLSMENGPQ RNGEIKDQVQ GITPKMLTQR LGVLVEDGLV TRTSHAVVPP RVDYQLTDLG
ASVIEPCRAM YSWAVENIKQ VEAYRSA

> aaRXA01246 (1-639, translated) 213 residues
MKRTITIAAL ALTSTLVLSA CADNTEGENT DTTTIATTSA PDTTETTGAT TDPETETGAA
GEVSAEHNDA DIMFAQMMIP HHQQAVEMSE ILLAKDDIPA EVIEFTQGVI DAQGPEIDRM
NTMLETWEED PVTGDMGEMD HGGMSGMMSE EDMTALEDAQ GTEAARLYLE QMTAHHEGAV
DMARDEVTDG QNPQAIALAE QVIEDQEAEI AEI

> aaRXA01249 (1-300, translated) 100 residues
VSQDTFLTTH GLAAMDAVEI IDHLDRQKVT ERPTDLIASV RADELLLSSD DQEVVVDLPD
NQTYVSIAPY LNSTHDCFYH SLTTCLGDLD NEDIHVMITD

> aaRXA01251 (1-309, translated) 103 residues
MTQPDMSQIL AQAQQMQAQL QAAQQEILAT TVVGNAGNGL VTVTMAGNGE VFAVTVDPKV
VDPEDVETLQ DLLLGAFKDA HNKVANVAEE KMGPLSQGMG GLF

> aaRXA01263 (1-912, translated) 304 residues
LTPYDPTAVN KESEKEAAKN LFGAEALTVD PDAGEVVDRV DNFYPTTAKA KRDYPSNYAA
GCHQEVNETS PESCVYGDKN SDFSVALVGD SHAGHWLPAL EPIAEAQGWR LEVYTKSQCP
LISTAIKLGE TFYAECYEWN EKLLAKLTGP SAPNHVIVSS QRYASANPLI DSVATGTVSE
GYEMAWNSLK DAGVSISVLL DTPRPQIDIP ECVASNRDNL SECSVHRSVA LGTEAHPQQK
TAAQNIDVPV LDLSNWICPE EYCSAVIGNV LVYRDSHHLT ATYARSLSSA LWNELVASNG
EPFK

> aaRXA01266 (1-1035, translated) 345 residues
MPKVSVVTGF YNRCEHLERT IESILNQTYS DFELIVFDDA STDGTASRLL ELKEKYDDPR
FRFIIHEENK GFVKGLSEAI SGAKGQYIAV QGSGDVSLPR RLELQVEFLD ANPSVGAVGG
AIYNIQEDTG TRNPQRFEKP IATFDDLLTS NPFTHGEVMY RLDLYKSIGG YRSGFTFAQD
RDLWLRMAKK ADLGIIPDFL YHRYTLLDGV SFVPDKTIRQ RCFSEAAVRL ALMPEEEGAL
AYSRLEAEGP TAVVPIADRA VQKFVPKAAI RLCLYGAPET GLHMARDYIQ NPLRRTIVVV
LISIYSSRLI KPLQDILYKS IFKGVSISKP IKSSLVKFTR RIQGK

> aaRXA01267 (1-1314, translated) 438 residues
MYAEINGGFI PEGTVRVSGA KNSATRLLAA ALLTDEVVHL GNFPTKLVDV EHKIRFIEEL
GGKVHVDHDE QILVVDAKDL AAREMTTDEL NIPIRTTYLL AAAQIGRGEI ARVPFPGGCA
IGGGPAGGRG YDLHLMVWEQ LGCKILEKDD HIEVTAPQGF IGGVIDFPIS TVGGTENALL
CASIASGDTK IANAYITPEI TDLIELLRRM GAEITVYGTS RIHVKGRAGL LQGAYMDVMP
DRIEALTWIV YGIISGGRIT VEGVPFSSME VPFIHLEKAG VDLFRNSSSV YITPECLPSG
SVQPFELACG THPGVISDMQ ALFVLLGLKG AGTSRVYDYR YPERIAFVEE LTNLVSGDKL
SAEAGKITIQ GDATFRPGYA NSTDLRGSMA VVLAALCADG KSTINNVHMA LRGYNELDKK
LRLLGADLTI REGEVPSP

> aaRXA01268 (1-840, translated) 280 residues
VAARIARVPR IVYVAHGLRS ETVLGLKKKI LVFLEYLTQL FAHQTLAVSH SLKKAIEDAH
PRFKGRVQVL GYGSMNGVEL DRFRVPSLEE KLSARNALNL PSKSVIVGFV GRINKDKGGD
LLAALTKHEA FTRLRLHLLI IGELEDDDLR EAFIKLVNEG QVTITGWIDF PEEPLAAVDV
LLHPTQREGL GMSLLEAQAM GVPVLTNAVT GTVDAVTSGE GGFFADDDSV ESWVSKIDLL
VSDPKLRDRM GRAGRQFVSA RFNRDDVAAR FSHFVEQFKK

> aaRXA01271 (1-1812, translated) 604 residues
MAISIGKAGQ NLKGSVPIGK VLFLIDALAW ISALFIGVVL RYEFNLSSIN WSAFAWFGLA
AVILQFVLGL SLHLYRKGLR HLFGSFEDTL NVSISVIVVG VVLWIASLFV GQRWKISRGV
MLLVIPLALV FVLAVRYLAR MRVERFRRPA ADSTPALILG GGYIGTNLIQ WMMSDPKSPF
RPVGVIDDNP ELACQRVRGV PVLGKFDDIA QVASDTGAEL LIVAIGDADS ALLRRVQDTA
NKNGLSVKVM PAIDRVVSKG VRGNDLRDLS IEDLLGRQPV ETNVSEITGY LTGKRVLVTG
AGGSIGSQLC TEIAKYGPAE LMMLDRDETG LQQVLINVAG NGLLDTDAVV LADIREADAM
KEIFLKRKPE VVFHAAALKH LPMLEQYPDE GWKTNVLGTL NVLAAAEAVG VETFVNISTD
KAANPTSVLG HSKRVAEKLT AWYGQNSTSK YLSVRFGNVI GSRGSMLPTF TRLIMEDKPL
TVTHPDVTRF FMTIPEACQL VLQAGGIGRS GEVLILDMGE PVSILEIAQR MIAMSGKDID
IVFTGLREGE KMHEELVGDG ETEDRPFHSK ISHAHAESLA PNNLDRDRFM QRAGKLASTD
SEII

> aaRXA01273 (1-1434, translated) 478 residues
MELREYATIL MKNWVLIVIA SILGIAAGAG FSLLATPEYQ SRTQLYVSVR SGAGTTSDMV
QGANFSRQIV NSYVDVIKTG VVLEPVVDEL GLELTANQLS SHISAASPAD TALINITASS
PSPQQAAEIA NAVGESFKNV IQTELEPDSG DGMSPINLTT TQVALEPSSP VSPNVMMNIL
LGLLVGLAIG VGIAVLRAAL DTRIHSLRDI EEVTDKPLLG GIIADSEVEK HPLIIKHKPH
SPIAESFRAL RTNLQFLNVG GSSSVFVISS ANPGEGKSTT SVNLALALAE AGSRVALIEA
DLRLPRVSKY LGVEGNAGLT DILIGKAEVN DVLQRWGRTQ LYYLPAGRIP PNPSELLGSA
EMDKVIAELE ESFDYVIIDA PPALAVTDAA VIGHGKAGIL IAVSAGSTKK PELEATLSTL
ENADANVVGV VATMLPPKSV AGYGYGNYGY GDTSKINAPK PDNTELTTTD ASKANNEQ

> aaRXA01275 (1-918, translated) 306 residues
MEKIRSPAVQ SDALQVFKSA LAATVTWWIS VNLLNSQLPF LAPWVALMTM QFTVYHTFIS
GIQTAIASVI GVGLSFVIGT YLDVSVWTFG LAMVIGLIGA RVPKLRAEGI GIATTSIFLL
ASGFDDQQPL LYDRILEILL GVAVAIAINL IIFPPLRDQE ANMVVGNLDR RMGEVLQKMA
DELAEKWNID NADEWLEEIN SINNDLEKAW HSVRFVRESR RVNPRKIRIQ EGRPQPTETS
YESNLTSIDE GIAHLRHLAR TLRDTPIIDS DWGSSIPATV GIPYARCRSF ARRSESGNRS
YPRPAL

> aaRXA01276 (1-546, translated) 182 residues
MRKTLITMLA TTAIAFSAIS PVQAQTVDTD TDASVSSELS SGTSSGSSED SEDSDISNRD
IIFGIAAIAA VGGLIAGGVH WAVQQRMIPN PLPGIIPNPP ALAPQAPAPA PAPAPAPQAV
APQVVAPQVV APAPAPVQTN RTYKNCTEVW NVLGRSIRQS DPGYGTHLDR DRDGIGCESR
PR

> aaRXA01281 (1-762, translated) 254 residues
VGLSRSHYQL AAENTKSLVR MVPMTVPQGN EPAKKLATDL NRNQVVDELS AAVSRGQLTL
EEFEDRSSKA WNARHLDTLV ELISDVNDNP YTLLGQQFPG ASYAPAAYET TPPAMPNVSD
PVNIVRNRIT GNPNGSKMSV SFMGGTVRKG GWHVPNVHTS FAMMGGNQID LRDAFLESDR
IQINAYTFMG GIEIIVPEGV FVICDGMGIF GGFEQSVDKA GALNPARLPS NAPTVHIKGL
AFMGGVSVVT KKNI

> aaRXA01282 (1-780, translated) 260 residues
MDELLKQEVK DFLTTRRARI TPAAAGLETQ PWSDRRVPGL RREEVADLAG ISLEYYIRFE
RGNLKGASPE ILQSLAKALQ LSPIEREHLH NLAYRADHPR NLPSAETPTA PLQDIVDAVT
DKPAWIRNEQ MDILATNRLC AELYAPIFKD LPDRPNTARH CFIGATASEF WVDRDQFSAE
FAAKLRLEYA RRPSVPGLKE LIDELHQKSS VFRDNWASAD VLSFGSGIKR FRHPTLGERV
YEYETFNLNS APGYVLSIYF

> aaRXA01294 (1-666, translated) 222 residues
MSTIPDVFTS EVFPEISGTK EFRGLTYMFF DQFTLPTAEQ LEQAKAAGWS LITWGWWNSD
TDLEDVELED ITNEGDSLPK LTDEFAVSSL STFDLNSQGL PNDDREPQPI EEADSLDDIF
SEEEGWGLMA INCPNWQVPA ACEWLGCMNV GEPFEMSHVL RVWQNSWGVE ALAFGGEEDD
ADLLLRVPEE SEELLKALAV ASDQVTTYKH EDLGFLASLW FD

> aaRXA01295 (1-975, translated) 325 residues
MTENLDNALL SMRMKPVQMA LMTLGYNHDM AVTDSGMELI VRRPGLTVNF NLDSVTLCIV
ADFMWHGCVP AKKQAEYLRA ANEFNRPTRD LQVVLDEADS KNMTVRGREF FFSSVGATWE
QSAEFVHYCM NDVATTFVSW CEQIWPKFSP ERVEFNATPP DVDFEFSEDQ LKEGNPFGLI
DEPTPLVSLD RIYQQYELMG ADQLKMGEDF VEYLHMGQRV SAWLTDGNNG SDRKTLAVSS
GTGVKIKNKK QLQELLGLCN LYSKEHVLVT VFAEEIENGA RWGIFAEARI DLPAGLNDHQ
LWVFLANSSK WTAEVCLTVA HRLQN

> aaRXA01296 (1-1083, translated) 361 residues
MSIEQAITSL SARVRELKPI IETEEATKTA LIIPFISNVL GYDVTDPREV IPEYTADVGV
KKGEKVDFAI KTGDDFHFLI ECKKVGSPLS LDHANQLVRY FNVTDTEFAI LTNGEIYQFY
GQLDAANRMD AKPFMTLDLN NIDARQFPHL EMCTRKHFNP QALAANAEEL KYIAELKKVI
ANQFQEPDVE IVKMLAATVT TKRMTAQNLE FFTRLVNTAS SQFLKDEVNR RLRSAQVFED
PVQTQGADAE TPAEDEAVIE EVVSEIVTTE EEIHGHSIVR AICCSEVSAQ EITMRDAKSY
CAILFQDNNR KPIARFYFDR KIPRIGIFNA EGEQEHFDLE SIEDIYNHAD LLHSRVVALN
A

> aaRXA01301 (1-405, translated) 135 residues
FLRLEGIEPK GPARAYYFGD VSDTVDILIG FPVSPAQAES LRRGALSQSG GDIDDVVLHH
FRDMKTMHSR HSGPFDGVER VWDEILDEVE DLGCTLPSSS IGWEEYIEGP ATADTCDQLA
SEVYVQVCQA PVKSA

> aaRXA01304 (1-486, translated) 162 residues
MPAQNKNLPG SVIVVSDRIK SGERIDKAGP VAVDLLQESG VEISTFTVVE EGFEPVHQEL
VKALARRDRV IITIGGTGVG PRNRTPEATE PHIDTLLPGL MTQILFSGLS NTAQAGLSRG
LVGLSARDST AALIVNAPSS SGGVRDALGV VCPLFGSIFE RL

> aaRXA01306 (1-1008, translated) 336 residues
MTEWYVVLPA TILLIALSAF FVIIEFALLA ARRNRLEETV ETSRSSRAAL RSLNELTLML
AGAQLGITMV TFALGAITKP WVHYALMPLF EWARIPLVMA DVIAFILSLF IVTFLHLVIG
EMAPKSWAIA HPETALRTIA IPARGFINLF RPLLQWINKM ANDLVRKVGE TPVDRAAAGG
YDTDTLHALI EHSRETGALD QQSAAQISGI IKLDKITVGQ TLTASPFTHS ASATVAEVQA
AAQRSGSLRV LIDAPSHLFP HVIHVRDTLG ASPDEKASKW SRPILTVAET DTLHQALEYM
REHNEQISAV LSADGKTVLG VITWDHILKY LWPASV

> aaRXA01310 (1-327, translated) 109 residues
MSSAKKKPAP ERMHYIKGYV PVAYSSPHSS LERSATWLGM GFLLTALAGV GAVLFAVGAN
SVGQQQEHWV LYSIIGVVFA VVCTVLGTVL IIKGRAPYNR YVKETGRTQ

> aaRXA01313 (1-945, translated) 315 residues
ALRLISQLLA PSAALNFKSE RNAVDVAKHM LASQAQQRGS ALVALDTRSE NADAATALRK
SLLIRSWTQR GTHQILAAED VRWMTLLCSP RILAASAKRR SSLSLDSAAV QRARDALTTA
AEKSPVSRTQ AYEIFRSVDV DPGEHRGQHL LRHFGGEGDI VQGPPIGTED SFVLLDSICP
LSLALNGDEA LTEMTRRYFH SRGAATVKDL VWWTGLTVRD VKKGIAAVSS DGLIHSVEGP
NGEEMWIPTW ADDVTDAEVS DALALELTLP AFDEYLLSYT DRSHVMDPEH LFSIGPGKNG
VFKPFKVVQG EALPV

> aaRXA01315 (1-651, translated) 217 residues
VDIEEQPSLR EIKRQMTLEA IEDNATRLIL ERGFDNVTIE DICAEAGISK RTFFNYVESK
ESVAIGHTAK LPTDEEREAF LATRHENIID TVFDLVINLF GNHDNSKSGV AGDIMRRRKE
IRVKHPELAV QHFARFHQAR EGLEHLIVEY FEKWPGSQHL DEPADREAIA IVGLLISVML
QGSREWHDMP QGTQADFQAC CRKAIKNTFL LRGGFSE

> aaRXA01316 (1-303, translated) 101 residues
MDISMLNVIT SYTIWAIFAI IGICGFVGAF LAATTREDAF EVADRQKKMV WVAILIASGF
VLTALGPSIP ILPWVAIIMI GLYWFDVRPQ IKSILEGAGG W

> aaRXA01317 (1-420, translated) 140 residues
MSDAKDDSIL SKWSNAASEL SGAVSGVAKK LREELSEKET FSKLKTEASE AVDQAKSGSY
LDAGKEFARD AGSIIKDAAK TVKGAVSDSD KNDVKSAFGN AVEASRDKFD DTLEKRKAKK
DSPEPGDDDI IDGEVIPPQN

> aaRXA01318 (1-1302, translated) 434 residues
MGKHEVAQQT VPGPSPEMEA QRRKELRKHK AIATGLLIFA AAVYFLCRFV ETRPGETAAW
VGFVRAAAEA GMIGGLADWF AVTALFRHPL WLPIPHTAII PRKKDQLGEA LSGFVGDNFL
NAQLITEKVS QARIPERAGE WLAQPENGEK VSREVGKLTA NIVRAIDPSD AEAVIKSAVI
DKLAEPTWGP PAGRLLEQLL AEGKAEPVVQ ELAQWLHKKA LGSEPLIDRL LNERRPIWAP
KFTAQLVSGK VYDEVIKFTE AVAADPNHEA RKSLRRFLNK LAQDLQHDPG MIIKVEEIKR
DIMGSGAIAQ AAPTIWASAS ESLIESAEDE SSILRRKIAE AATSWGQRLL VDDSLRHSLD
TRITGAAAFL ADNYAPEVTG IISETIERWD AEEASEKIEL MVGKDLQYIR LNGTIVGALA
GLAIYAISHI LFGA

> aaRXA01322 (1-438, translated) 146 residues
MKLAPRMRMR SPKTFAALAS LALVIGLGQV PIAQAQTEYR TASDGSLNWG FRQSFRNYIQ
TGVAKGSITL GDGASDNGGN FAFTPRTNGT TVTSDSQGTV EFNGSVHFLG HQAEDKWILD
TTMSDIKMVF NGSSAQLVVD LVAREF

> aaRXA01326 (1-294, translated) 98 residues

LRERLLQNNG GEVIDNENND WILHPVRDDS DRKRLVRTAN DIIRETESAR EWDNFPENAI
AIANDGTGDL IILLPDDDAF YIWSHEDEPL IETELEDA

> aaRXA01330 (1-456, translated) 152 residues
MWKDLTEPLP EACAEGLEIR VVKSPEELAD YAAVLSANWN PPAETVQRFY TEAAEYALRK
NSPALYLVGY AGNRAVCSAE AFIHASVVGI YNISTLEHKR RRGYGGAITL ATLHTARNAG
CDTAVLQASE DGEPVYRKLG FTDCGRFTEY SL

> aaRXA01331 (1-576, translated) 192 residues
MNIMGDPADG NGWMYAYNGL HSVARHYAWP AAGEGSATAM LFWWPQLLGV GTDENPDQVN
DVDQAARDLN VGYFMISPWT FWDFQIPNFR QIDLLWQTPG VTPVCKKGDS VIFAVNDMFT
DAELDQMRAP GNSPEPLPEL PTLGELGLAE TEDEVDQTYY HRPTVPAGVN SEMPSAETLY
APDPTKPHTV PN

> aaRXA01333 (1-1005, translated) 335 residues
MPGGCSGNIV RMLPKSRIFS AILLGIGVAL VVWGLVAPRF VHADGRLPLD LEATTYVLHD
SDAQTTINSD PLAGVVTTPV TRQLHFEVMD PASADDATIR IGDSMLRGNP DTQGFEQERL
LSATVSSFRI DRTSGEVLSD IALTNQLASP TVQYSVDGIW LKFPTDAQET TYNVVDPVLR
SALPADFVES TEIDGREVLH YRQVIDNVNV AEYFADANNT TTLTKEDGGT TTGYFYHNVT
RDFWVDQRTG LVVDLAENID DFYGDRSGQK YEQKLLFDAS LDDAAVSKLV AQAESIPDGD
VSKIANTVGI VIGAVLALVG LAGCFGAFGK KRREA

> aaRXA01336 (1-603, translated) 201 residues
MEPTVKASAR HTIHVTADTW RIRLSASAHS HPNDAYARRA TAISAIGSVL IDVPLQGERI
SESTAYDGQI NADWNAEVTG TDVNIARDII SRLAAVPDVQ VDGPLWSLSD SLAAEAAVEA
LQGAADTARN TATAIAESLG GQLGALLYAT TDTHSSTPIP ARAEMMAAKA SIPPRTLDLE
LAPSDIEVTK EIAVTFEFLA G

> aaRXA01337 (1-1413, translated) 471 residues
VTFRGGNTGA KHAVVVGSGP NGLTTAAVLA KAGWQVDVYE AAPTPGGAAR SESVLGEGTI
SDLGAAGHPF GVASPAFHYL GLEDHGLEWA YSPFAMAHPL DYGRAGLLET SLPETAKKLG
PDARRWKNLH QGLTKNIDKH LANLLGPVLK WPAHPIRMAK FGPFALLPAK RLASAAFETE
EARSLFIGSA MHSVTPPHKP MTASLGLLFG ALGMSRGWPV AVGGSGRIVD ALVNVINHHG
GTIHCDSQID SLSQFRDTDA IILNQTPSQV LKLKGTDLNA GLPQRMSTWK HGPSSYKVDY
LLDEPIPWSN PQVGQATTVH VGGSSEEIAF AEAEVAAGRM PERPFIILCQ QQVADPSRAR
EGRHVVWAYA HVPRGFVDKR AALLITAQIE RFAPGFRDRI VHSVDTNAED LEAWNPNLVG
GDITAGSALL RRMPTKIGEK TYMASASNAP GGGVHGMPGW WAAQAVLADH R

> aaRXA01342 (1-1512, translated) 504 residues
METPTQDMDV RWLYTQSQLK LREILPTNKT FDVIQISELV DPTDFIRPNS VVLSVGIAFA
ETPDGLRDWA HRLADAGVIA IGFGSGLTFP QVPQALIDAS LHLGLGLFEV PREIPFISIT
SSVRDEQTRR AGRLQQELLL EQERLNSIAI SGGIEALCRA AADYLGGAVT IVDSDGRVAC
SITTDDLDAL PQAVSRLNGS SQALTDATNF GFIHRMTRYG DRHHVLSVLM PTRPTDQHRA
LIRHCAGLAD ILLQRPEAMR DREIEVRSLA MSLLLGRSDD LATIHRVFAD ITDASGNIRP
ILITGNTPQS VRKALSSVAT ALYKQERALA HLRLAESTEL LFLRGSRSVH NIVQLFGTAA
SGVRLCIGLP TRAENIDKKL IRELTATAKT LQLGTHAEPR DGTLLWLQNP ELRKILKIRS
RDTYDRLLDH DRTNNTELAP TLVSFTQHSG HIGDTAKELG IHRHTVRTRM IRIEEICEID
LNDPLTRAEL LLVIATKEGD VEKQ

> aaRXA01348 (1-492, translated) 164 residues
VGFVWSGSDS QIYPELRKME AEELLVGSDV PWGSKGATKT EYALSEKGWE ALRKAWYEPV
TYGPTRDPAR LKAAYFEVGT NGDARRHLRA HIAHFEQQKI QSESMIDELK AKTHPTLARR
LERSPKKEHE RIVAFKVLAY EGQIARAQAE IEWAEKGLKL LDTL

> aaRXA01349 (1-777, translated) 259 residues
MATSRRDAEN IDQAGSEFIE SDSGHTATPE EVVATALTFF AEDGFSETKL EKIAKASGMS
KRMIHYHFGD KKGLYIKAVS YALRLLRPEA EAMQLDSAVP VDGVRKIVEA LYTCITKHPE
AVRLLLMENL HSQDSVDSTA AYSDESNVLL NLDKLLMLGQ DAGAFRPGIS AEDVLVLISS
LAYFRVSNKV TLKNLYSLDL ESEANIEGMK RIVVDTVLAF LTSNIQNSGN SSYLVVGGKT
AEPETDDSVY SFDTDVFEN

> aaRXA01357 (1-303, translated) 101 residues
MSAEELDNYE AEVELSLYRE YRDVVSQFSY VVETERRFYL ANAVQLIPHN SGNDVYYEVR
MSDAWVWDMY RSARFVRYVR VITYKDVNIE ELDKPDIIMP E

> aaRXA01359 (1-1182, translated) 394 residues
MIDSRLLAWA YLSKVVEGPN AHLQKLLKEG HDVERIAFGI KHREEWIGEG LLKNTDSRYS
IDTAQTDLET IAKLGGRLIT PEDDEWPMEE LDHAFGFAAS GMSDHVRTYQ DDALPPHALW
IRGGNLRTLS AQSVTLVGTR AISQYGTEVT REFTQNLVSH QWTIISGGAL GVDSVAHSEA
VRAQGSTIAI AACGLDRSYP SHNRDLFNQI AKSGKGALVS EYPPGTPPQR HRFLTRNRLV
AALSQGTVVV EAAWRSGALN TLSWCAGLGR IAMAVPGPVN TAGSLGCHER IRNGSAQMVT
SADDVRSLLG AVGAMDSQTQ YELNFAATPV QGLTRNELRV FDALDDRGEG REAASIATEA
GLTLQLTIFL LIALNKRGIV KRDGTAWSRN AEMP

> aaRXA01362 (1-1395, translated) 465 residues
INELILFDVH DLVKYGVHVY GAPQESINFL SAASLYHPQT VLDSFDHDGS GNLPGLKDDN
GNWDRRPHKD RIQLVNADTL TVWKSILEDE QTPYLDTRMV YTVNTEAAAA LEKLASAPRI
KELGLQFSSG WNETTDKKKG YFDVGWGYPA SWSDAILQGP HLGVATPMIK QPNPTMKHNQ
DWSEIDFEAI PANFIPATAY QPDRQTKPTY DADYGTWTFG DKQVPVADTF RIAWREMAAT
TGFRTVYPSV IPPGANHVHT VNSAASRSNL KTILVGAQLG AILSDYFARS SGSSHIFNDI
VRKIPLPNFT SLEKQFARTY LRLNCLTSAY APLWEEITGE PWDVQVPLRN AEQRRAAQND
IDAMVALSLG ISADELCMIY RTQFPVMRRY DQEDHFDANG RKVPKEIIKL QQKLKDGQEL
SVEKRTWVHP QSEVSYTFEY PFRVLDREAD LRAAYAKFEN QLKEP

> aaRXA01364 (1-1866, translated) 622 residues
TGTHLYDSLQ LLFTLVDKGH HPTDAKAVAF DAEAGEEGLH FRNLSADLFL PAATELIDRV
GLSNEALNKV LENLLLSRVQ SGKDRGFISY ATLGVTELGQ VYEGLMSYTG FIAQEDLFEV
APHGKADKGS WMLPVSKADE VPADSFIEVD QEAPGGGVIK VRKRHPRGSF VFRQSSRDRE
RSASFYTPQV LTSFTVTQAI EELQASKRIT TANDVLSLTI CEPAMGSGAF AVEAVRQLAE
LYLELRQEEL EQQIPAEDRA KELQKVKAHI ALHQVYGVDL NSTAVELAEI SLWLDTMNAE
MDAPWYGLHL RNGNSLVGAT RSLYAPSLLN KKAWLTATPT RYRLDDIAQA IDENKAEPLF
NHGIHHFLLP STGWGATADA KDLKDLMATE IKELKSWRTS IRASLSKTQI KQLNNLALRV
ETLWRFVLMR IRIAESQISR STTLWGQEPA EVSEVVTREQ IEQDLFGNID GAYNRLRLVM
DAWCALWFWP LDAVATAEHP ERPALPDLDE WLATLTEILG IDLPLKSKNE NQIVLGPDTN
WLAINDAEAT DLGFSGALSF ERVSANHPWI NVARQVAKQQ SFFHWDLDFA HVFAKGGFDL
QVGNPPWVRP DVNFEDLLAE HD

> aaRXA01366 (1-390, translated) 130 residues
VSQFRRCSRP GCGKPAVATL TYAYSDSTAV VGPLAPAAEP HSWDLCEHHA ERITAPLGWE
MLRVNDIKVD DDEDLTALAQ AVREAGRTVS GLVPEDEVGG NHPVNRSARI AEQKVHRRGH
LYVVPDQDES

> aaRXA01367 (1-402, translated) 134 residues
MPVEVPRHAS RRQAFDRAVL EAYSPLYGIY QKELSNLDIA VDTVPRMRLS ADLAILPDEI
TADGPVPLGR VIPPAIDTKG NPTRARIVIF RMPIEQRVTN AVERHELLTH VLTSLVANYL
NIDPRDIDPG FQDL

> aaRXA01370 (1-351, translated) 117 residues
MGAWDDAILT EEVNVDFLDE ISELDTQDIL EALEDACLLV VNQDNATEDE HLNGQAAATI
AAIMFGAPYS AGQVLENYPF IRELVGEGSE ALRGAAAQVL EEADVEYDLE AYLEALN

> aaRXA01372 (1-591, translated) 197 residues
QDTFVLPTLP TAAGLSPARI VASISTLLDL LEADPSIISD RLEHLADCID EEVESLSPER
DELVNPGRKL RAYVDHARIV HTGRTDVGLA IANVIAPIWT RRGLVSAVLD FPELMESLPE
LRGPEPITDD IFHDPFIDDE PGVVPFRAVV WAEEEPGIPD AMAQSCDGPS KGALTQALRL
LVRGQSATTY SIEEKDL

> aaRXA01378 (1-1278, translated) 426 residues
HVWISPGASN PIKDRLFPWT LVKAFLSSPA ALGETVSNRL KKASAPEEKR ALETLSQLNS
AITPQTSQKY QSLLSYLGDI GVKKNSDTRV VIFSERVATL HWLQENLIRD LKMPPNSIAV
MHGGLPDQEQ MRLVDEFKKT DSPIRIMITG DVASEGVNLH TLCHNLVHYD IPWSLIRIQQ
RNGRIDRYGQ THNPSIVTFL LDPAEDSKVG EVHVLERLME REHEAHSLLG DAASLMGKHS

ERLEEETIRE VLRGAQNFND AVADPAEVLE NPAGLDDIDW LLAQIAQADA KAETEAEAET
ENQTAPDAAS NSTQHAQRRL YAQESSFLYD CLLEGFNNVP EDSINRGGVG FKKHDNDIVE
LTPTDDLRRR LDFLPQDYVA ARKVKEDLLL ASTLMRGQER LNAARTGEDG STWPSAHYLG
PLHPVT

> aaRXA01379 (1-921, translated) 307 residues
LNVEEWISDH YLTNDDAKGA SFSKRVRERI KEWKTTEDAT QQSGPLTRFS SNRLQLQHAL
SELDDATTAA SLVASALGYG VPSARHAQRG SDTISYSSWV GNAGSVEFLA ATPAESFEEN
FRSLPLEPVA VNDKPQDITA AKLVGQIFLS DTPPAFVVIT AGKWVVLAER ETWPLGRHLA
IDISLVVERN DTKAQGEMQQ TVVALARENT ERAADGTTWW EETIEQSREH AVKVSGELRS
AVRESIEILG NDVLTRYEAK ELSTAEIDGG ELAKQSLRYL YRILFLLFAE ASPELEILPT
GTPEYDE

> aaRXA01380 (1-2016, translated) 672 residues
SLILGCDTKA RLEDLYLPFK KRRKTKADIA REAGLEGLVD KLIDAPSLDA AAQAAAFTTE
GFEDSKKVLD GARAILIDRF ALDADLVGEV REQMYRAGSM AASVVAGKEQ EGAKFKDYFE
FSEPFDKLPS HRILALLRGE NEGVLSLNLD AGDDIIYEGL IADRFSLDTH TSSWLAEAVR
WGWRTKLYVS SGLDVRMRLK EKAEEGALDV FATNLRDVLL AAPAGQRSTI GLDPGFRNGV
KVAVVDSTGK DVATTIVYPH QPQNRWKEAV SELANLCATH GVELMAIGNG TASRETEKLA
GEVADMIKAA GGTRPTPVVV SESGASVYSA SPIAAEEFPD MDVSLRGAVS IARRLQDPLA
ELVKIEPKAI GVGQYQHDVN QVALAKTLDG VVEDAVNAVG VNLNTASAPL LTRVAGVTST
LANNIVAYRN ENGGFSSRKE LNKVPRLGPK AFEQCAGFLR ISGSTDPLDA SAVHPEAYPV
VRNIAKATGL DVSGLIGNSA VLTKLKPADF ADERFGIPTV TDIIAELDKP GRDPRPEFKT
ASFKEGVEKI SDLTPGMILE GTVTNVAAFG AFVDVGVHRD GLVHVSAMSD KFISNPHEVV
RSGEVVKVKV MEVDVDRKRI GLSLRLTDEP GAPAPQKRGN RPAKQQRAPQ KQSAKPATGS
MADALRRAGL GG

> aaRXA01383 (1-1143, translated) 381 residues
MNLHSLEIRQ ISSGTISERK TWIFPTAARS FNQNLVHPQS IEIDAQTGVI LAMENRLQRT
EVESVEYPTD LPNPAWTGPA ISWPLKDPSI DFPDPLPHSI SELPPQSDNP RHLRVSISLD
AVEGAFPRYR IGDSIRIPLV FARDTPFMSG LETTRRAWIE AATEMDIHNT WPIILTGDGW
TALSHSDKPI RHEAELKGWF FHSLFGSEMP LTDLKIERIY GGLGTFDSGA TRWQELTDTD
DAYTENGSWL LEVIVDATLD GAIPPPLQPQ QFEASITHIV DEQLWVLGQM LPVLRCWDLE
TGKYLGQTYV PISVSHSSRL QFSEGLIHDY ENAWSLNPGV RMLAEPQPWI EPVIELDVPA
PWELQESFPD GLYFLTDGKQ T

> aaRXA01384 (1-1716, translated) 572 residues
MRSLQSVLDL LTSKSKVATK IVVERIEKHP VHGLGWMMYP PFHPWTDAST LTIERNGTSR
RASQNGVAVL HQHEQVQTIG LASYFIDSKI WVNELAGLDR INISESEVAG RDVLVLPLSD
LTLSIDAKYG VVLAAEDSDE SVRAVSVEFL DQWVDEEEPP AEEVPKYTET REELPPLEIP
PAPSGNRNLR VLCTWGAMEG IIPEWKPGDQ VSLFLSFDLD DPPFEQLKTT RRGYTEPGEI
YGNQRSYKFH ADGWNAVISA KVPLRTEENL TGYFTHSSYA DTSRRTSAVI TAVYRHGKDA
IIDVTLDGAK PPRYQESLDW SSTSTCDGET IWLSDKSLPF VRGFNVSTGK LVHEISIPTF
NEIALESGNR ARAAKKLWEL PDLKEATDPV PAIPAGWKLH KRFGKNFHIV SADNGTWKQT
ILRIKPFKAI ELDLGYAKIS TIYQYGERIY LRSDLHQITF NQDLEILSVE VHGNPDAGYW
PLSDLPPGDS PTLGFPIGSL MMFHEQQDIY AFHDPKTTKQ LTTVNLPKRQ FEVEYASQNR
IVISLKNPES RLIDKLLVWE PQTRWREQNL ES

> aaRXA01390 (1-657, translated) 219 residues
MFRRSLPSNK TSSASSASSA DTSYSVRLGR PEEPGYQPEP SYSEPYTDSD FAPAGAAAAA
AAVAPPMIAE QPQIVEDARR GTLDFGLLII RAVIGVYLIV RGVFTFFTLG GSAGLAGLEA
EFAGYQWPEI LAILLPSIEL AAGVFLLLGL MTPVAAAVAT VATSFTTLHQ VNTHEGGWGE
LSEPLMLALI LTIVVVGLQF TGPGKISLDS GRGWQSVHW

> aaRXA01391 (1-690, translated) 230 residues
VAAVAFAAYV IDGGVEEASG TPTSSESSVA ATAPAASSET AAEYRAMLAS LDVKGRAPGT
GYDRELFGPA WTDTVSVEYG HNGCDTRNDI LQRDLDDIQL REGTKDCIVT SGLLSDPFSG
ELIDFVRGER SGDVQIDHLV PLHDAWVKGA QQWDEQTRKN FANDPDNLLA VKGTLNQQKG
AGDAATWLPP NTAFRCDYAK KIITVKDRYN VWVTEAEASA LERQLDTCAA

> aaRXA01396 (1-258, translated) 86 residues

LKAFNTNFAA TLATGKVGDI TTTVLVAGDD EDAKNALITD VNAGGLDALD AGSLKRAHEL
EAVGFLQLTL AGSEKIGWTG GFGLVK

> aaRXA01397 (1-420, translated) 140 residues
VFMIKELLNK LFGNKKASPA MTQSETISHK ENNTMTTYTI FGRGNMGTAI AGVLTKGGAT
VEHIGSADSD IATINGDVVI LAVPYPAVES IIASHKDALA GKTVIDITNP LNFETFDSLV
VPVGSSATAE IQAQLQPPAF

> aaRXA01400 (1-1500, translated) 500 residues
MAISVSMPKA ISREELERAW LEVIERHGTL RTVFSTGMGG EVQQHRIDVG PGKWIDHAVA
PGESINEALR AVLNRQCSPY SRPSHSLCII DAHPRPTVII GSDHSHVDMW SMLVIVRDLL
AALDMELPVE PPLAFESHTA ELLAAPPAPE RIHQRWREIL EAGGGKMPQF PLPLGDAISM
PERVEVRDIF GVNGLAIYSA RARAQQVSSL ALTISVMADV TAALADLPLR AVFPVHSRFD
QRWHDSVGWF ISNSVIEVPD SDPHTAAQAV REAVSLGSYP LAELLEPWGG MPETPGMFAI
SWLDLRRLPV SIDDIGLQAQ YVSASLRTDG VMLWFILDRS GAHLRCRYPD SLVARENVGR
WIDAIVAQMR AEAGTVNLQA GGEQLTLRHG TRADISEIAP LLARNAADPC ELVDLEHALD
LLTHESSHFL AVVRNARGKI IAAMQLTIVP EFSRGGALHL HIEGPFIIPE YRTTDLDKKL
RAWAVEHGRA RGVKVEEVVG

> aaRXA01401 (1-261, translated) 87 residues
MNSPLQHSAF PVPGAQLSTS YSDEHGQAVI QLHGLTSSRQ RDRLLDLDLG RGLSGTRLLR
YDARGHGTST GRAASTDYQW DTLAGDL

> aaRXA01402 (1-474, translated) 158 residues
MGCATLLKAA VLNPDRFSGF TLMLPPTAWE SRKAQASEYL SRAEFLETHG MDAFLNAEKL
HAQPPATVGT PDTVPDISAE LLPWAYRGAA QSDLPSKKEI AKITAPTTIL SWTDDPGHPV
STAIELTRLM PNAQLRIATT PAEVARWPQH LRDDLQLD

> aaRXA01403 (1-414, translated) 138 residues
PITYIDGHPY VDGAVGETGG LMLQPAIDAG FTRFFVIASR PRDYWRKEIG RPGFIKAALR
RFPTIADLTI ARPALYNSVK QQILDLEKQG SAYVFFADNM NIQNTEINLK KLRASFDAGM
QQTRKDWPEI MSFLNQTR

> aaRXA01405 (1-456, translated) 152 residues
MSKIVDLRYG TRRSSELSKR SAEVFAEAEE HPITVTRRDG EALVLMSQRE ADGRARLLEL
AAQLITVATD HQGTLAERMA KVFPWMLALS VADREACARE ILDAARASFA TEQPHLALTE
LTSWKETAAA VAAGLSNTDL QWYDDPHLVE RP

> aaRXA01409 (1-816, translated) 272 residues
DFPDVTARLG YEYMQLTPHV DFGPFFRHPK ADDDLVAALK KRAKDAGVTI PALLPVQRIS
WPEETQRVAA VRNIKRIIQL AVDLEVDTLN TEFSGRPERS EDSEDAFYRS MEELLPILEK
EGIKFNIDPH PDDFVENGIE AWRVIRGLNS KQVGFVYVAP HSFHMGDQAE AILPAVGDRL
GAVYLSDTFD HHKSHGLRYI TNPPGNAVRV HQHLKIGDGD VNFEEIFSLL RSTGYLDRED
ALLVSNVFAE DEAADEVSRY QLEKIRSLIE NA

> aaRXA01413 (1-600, translated) 200 residues
LTHLFLELDE RLVLGVQQDG YQWTEHLFRL PLQHLRNSPN DLQGLKIRWC ELYSTTGKDQ
GVELLPQATV VTPNNFEAST LSGLEKLETV EDLKEAARLI YEQGPQYVVV KGGMDFPGEN
AVDVLFDGSS YHVFSEPKIG EERVSGAVCT FAAVITAELA KGAEVVDPVA TAKRVVTRAV
QDAVASNAPF TSVWLAEDNK

> aaRXA01414 (1-507, translated) 169 residues
MAVFDFPNPV NEYAARCTAG LVVLLSAATL FASGDLRIIL ASILTFGFAL RVAGGPRYSP
FGRLSVHVLV PLLKKAPILT PGPPKRFAQT IGLGFSGTSL ILMAFGFNVA ASVVLVMLIA
AATLESVFGI CLGCWGFGKL MRYGVIPEDV CEQCFQKESS RTGWLVSLK

> aaRXA01417 (1-597, translated) 199 residues
MTDKFDRVLA VEVCIQEWID EQNLTLEVPL MIARLQLRDV AKDITAVHEE KFYDLTDIDT
DAFVKNIKLG WNERLIKKSL FPQPDVHKQH FTETEHGIDA TVTVWSKGFD PESGPDFLVS
YVDGLWSADI RNRITKFQNR EIVSKFYFTP EHIKEDGDFS AEIFINRPEN DDDSQDLVEV
WTDQDTRYCG EMIIYFKWL

> aaRXA01421 (1-387, translated) 129 residues
MTSKSISGKR PNLPSLTGAR WLAALAVYFL HALVFLSVYP FQQSELFATI HKFVPMQLGS
AGVTFFFILS GFLIYWSNSQ LKGMKNVLYY CKRRITKIYP MHLIALPMFI EASAKFTTTG
ITWVLILRE

> aaRXA01422 (1-783, translated) 261 residues
FGDSHTSGTN APFRTDERGC LKGANNWADQ LQSQLGLGAG DLIDVSCSGA SINSDGFHFS
DEVRHAEARG AIGPNTTDIF VQLGKNDQWG LSNVNLLQSV QTCLTDVFAG CGDAAVAAGK
MQDPNAVTAE NYAERMKPVI DYLKYYAPNA EITLVGYQEY TARSGSQVCV RLGGTPLVKN
DAPALVSFMN KLDMAIDGAA GILGVSHVDL RSATEGHDSC SNDPWVNGVF DARAEIVGGP
WHPSVKGDSV TAGILRDRVN A

> aaRXA01425 (1-885, translated) 295 residues
VLSPDSGITW ALSIMFLTFT VRMVLVKPMV NTMRSQRKMQ DMAPKMQAIR EKYKNDQQKM
MEETRKLQKE VGVNPIAGCL PMLVQIPVFL GLFHVLRSFN RTGSGVGQLE MTVEQNANTP
NYIFGVDEVQ SFLRADLFGA PLSSYITMPA DAFDAFLGLD VSRLNIALVA APMILIIVVA
THMNARLSVN RQEARKAAGK QQAASSDQMA MQMQMMNKMM LWFMPATILF TGFIWTIGLL
VYMMSNNVWT FFQQRYIFAK MDAEEAAEEE EKRAAKRTTA PKPGVKPENP KKRKK

> aaRXA01429 (1-618, translated) 206 residues
MLQASLFPIV QEHIDFLHPQ ARKSVFWELA PEVAAKADPV FEKEAWLSTT LLEYESCGFN
IGYRNGTPAL ASVIFCERDA APGAKALPTA PVSSDAAIIS SLFIDEVFRG TGMESALLDA
SLMELIRRDY PAVEAFGYRS ENTEADAIAA RRLEIGLIDV EALESAGFEV VADHPVLPRL
RMELPPATVL LTAKDAQRLL QEMGAI

> aaRXA01434 (1-366, translated) 122 residues
VTDGNTSTAW TSTGGDGLLV DLSTPARLDR VILTTGTGSD SNVTSTVKIY AFNDASPHSL
SEGIEIGTVD YSGRSLSHSI RDSSKLPGQV ESVVILVDEV RSSQTSDTNP QMQIAEVQLV
GW

> aaRXA01439 (1-546, translated) 182 residues
MTRYFAVSNL QELGSLEVHK LYKLRVDIFV HEQQTPYAEI DDTDAAPTTN HILVWERADA
TPTNLIGCAR LAPITAAELK AYTGKGISLD DATPLSQLGR VAVAQEGRGS GLSGELMRNA
LRLAYEQYPD RDVVLTAQKP LVDFYAEYGF EVLGEEYLDS GVPHLPMLLK ADELERFSDL
DA

> aaRXA01440 (1-1008, translated) 336 residues
MKTKWLAIIP FVALAVVACS DTQPPVTETV TETAPQPTSE TAAQPPQPTT PAETTTQQAE
GINLTPRYTR QNVGHFSSGY QPGQVSFSSA DGTIKCEFRP MEQDAPINRE PSTDWRLSFV
QGACQFDDGY VVADTNVENR PGFAEYTTAI SHVMPENYTT LPPGTYIDLH TMACFTESAD
EISCIKYATN ETFRISAQGF EMLSNAQRDA ELTTQGGLYQ AFSNIAELRF SDGNAMSCFF
DAPGSQDFWC QTLSTPGWDD GSNLIHLTVT GGKLSLMGTQ VGNPGLDYFR GRQLIEAPNS
LLDASLSVTL DGDRVRFRTA TGEEMWVSSS DYGLGV

> aaRXA01441 (1-1029, translated) 343 residues
MARTTTAHAV LMALSSVGLL MLQACSEQEQ TPEQTPAPTL TSQAPETPQA STTSSASSTA
TPIATPIAAT ELDYLHIDPA TYDIGVQDQE TAVFTTGDGI TAQCFFEATP GETSYQIKEF
DFDETAGTCA FGDQHISVTT DENVRERFAE LSETEEELPE AQATLDVGEM VHLGHMGCWA
PSVSEFSCLD FASNQAFTMN EQGFHELDPA KATEQLINSS GQVQTLSKMT NFQFTDGTSI
TCVSELQAEE FLCHNSGPGG WSTSAGPANT LWWNLNQADS EFEGARPTNP TQSVYKSQQI
FGPGSYLLAN GVSAEFDGTT LTLTTPQGNQ YWANTHDFGA GTH

> aaRXA01445 (1-993, translated) 331 residues
MIPLINVRFP VAALPLALVA TVWLNAWADH LLLTGFIVYL AVEYATSRGR FALALILGVE
WILIAYGVAL ERPLEAKDSP SLITEILLIL VAAGTGAGRW KILSERKQRA ITQQEIIKKI
RTDIAHYLHD SMARSLAIMI VQSKLTELEP DPKKIQEKLN SIAKIGQEAV ADLHQLVRHL
VVEESAEKAT AFGAWAAVSI HDTVNSAIQL LVDAGHVVSF DSRKKNYKLD HIAETAFALA
FNEAVCNAIK HSPPKANVTI RITEKAQSLQ ILVMNPIGDW HANGESAIPG VGIGVESLTR
RIRNIKGQVC VTSLQGYWKV VISLPLKCED S

> aaRXA01447 (1-849, translated) 283 residues
MRLLVLRCDA PHINEFPALS TSVEIHDLPA VPTRKDLKIL DDVAFDVLPQ DPTPSLDEIA
KQPDVEHLSS PKFAPQQPET RLRIVVIGSD AALSAVLTRL MRADNLWAEI GFVPVGPSTA
AKNWGLPADE AAALELALTG LVNPAPLIRD DVAVAVAGSA TITNWEPGEI TGEVIVDDHV
LIRHEAASKA PRRGVYGARL VPMLDAPGIA AVIMDTPLPG EVPSRSLFPR PSGSVIPESF
STGRAMQAGG PSLQIRVDGI SRKRKVERVT FYRHLRDLQI VRP

> aaRXA01448 (1-780, translated) 260 residues
MAIGGILIAT MFPPGDGGSI DRMIDAFIGG GVGILVIALL PSSPLDAGRH QVANVLGIAA
SVLEDVAASL KAKDAAKLNN ALEALRRSQA SVNKLETAAS SGKEATTVSP FLWGDRARVR
SLYRILAPVD NVIRNARVLA RRAVVLTEDN DTVSDEQIHV IEEIADIALR LSDLYEHHKE
ISEALEIPEL VNRLRQLGSE VGEDIAEDRV LSAQVILAQS RSIIVDLLQI CGMSRESAVA
VLVPTSESPA YPPELWDDED

> aaRXA01452 (1-279, translated) 93 residues
VIRSFADRDT ELVWLREGAK RVDPRIHKVA NRKLHLLDAA TTLDALRVTP GNRLETLEGD
RVGQYSIRVN DQWRICFRWN DSGPENVEIV DYH

> aaRXA01456 (1-522, translated) 174 residues
MNDSIFSPQA LNKAMLEAVE FIHAEGWDAG PTLFALVPTE MLVDTLDEAA DDSPLTLVVQ
DNLPDNLLPG SEALGDYVSR LAWPAEIAGA VLAQEIMFTD AAVAGSEPRP ARLFSGVLRG
EAELTLLQLR PTEEELAERG PFAEDEIELR GGPGVAPGVI AALRYTLEAD PDEI

> aaRXA01457 (1-675, translated) 225 residues
VASTPHKHVR VALGLVALIP LLAACTGGGS TETSTESTAE TTPATTTEAT TTPATTASSS
VIETTESSTA ETSTKESGET STSKPRMTKD VEVAYKAFSS LAPVELFEQF ETCDPSGVED
SFACNGPEVG QFQFFDNASK ATSTTQLLTE LRSSRVVEDS GSKVVGWTTI GTMSIITVVD
NDQGLVLQQM VSSDKIDPEE RIYELGLSTP KDTEESSEET SASKN

> aaRXA01459 (1-810, translated) 270 residues
MNSNGFGFSF GNNDDDDDKN RNNDPFGLFG GNFGFGGQGG AGGPGGLGDI LNQFGQMLSG
MGDSMNSPEA AGPVNYDLAA RIARQQIGRV APVKDSEKEA VEESLRLAEL WLDNATQLPT
SGHRVEAWNP ENWLENTLPV WKRLVSPVAE QMNKAQLENL PEEAREMMGP MSSLMNSMSS
MNFGVQLGNA LGDLAKQTLT GSDFGLPISP VGVSAVLPGN IAEASKGLNV APQEMLVYIC
AREAAANASS STCRGLSSAS FPPLRNTPSA

> aaRXA01460 (1-294, translated) 98 residues
VPWLVERLVS SVEEYAVGLE IDTSHIQEAM GNFQMDNPDP ERLQEMMNEL QGMDLSPRIG
SRNANAVSRL ETLLALVEGW VDIVVTQALS ERIPSPTP

> aaRXA01463 (1-1164, translated) 388 residues
MEMSYFSHQD PNNPESHINF TMAQMEIQRW TLLISNPEAD ASTLVMELKT VTGESKHFIN
QAINAMWALM KLPILRVVVE THFHVRIPYL ARIMQAVKQA KPELWDELDH RIAEKLTPRI
AGQALMEASA LAGLITRWIK ELDPTFTGKK RGPKGSDGTL TFRHVDGRTY ISGNIDGVTG
KLFQKALEKV KQKGEDLARA LVTFLAGRTK VKIVSAVYTP LVGGVSWIPG VGFLSQEESR
KLGKTASKVI DLDTIATRVE NGYTPSPELR LYVMGRDGTC RHPGCTVSAD NCQIDHVIPF
GEGGLTVAWN LQCLCAHHHN MKTDGRIQAA IDSMGRVAWI GPCNRTVVTE PVGPLAQEMP
TGQWGQTLEA RMEKTFEKLR SSLEVLDD

> aaRXA01469 (1-1032, translated) 344 residues
MAFADIVRSV ENRTNAATLN WSIKNGWKPE VTGFSGYGSG RRVRVLARVL MSNPENLLVD
APSQSITQQA QRGWRQFFTI QVPNLPVTVT VGGKTVTSST NDNGYVDLLV EDHNLDPGWH
TIQIQAEGST PAEARVLIVE NTARIGLISD IDDTIMVTWL PRALLAAWNS WVLHTNTRKP
VPGMNRFYEE LLKDHPDAPV FYLSTGAWNT FETLQEFINK HALPDGPMLL TDWGPTPTGL
FRSGQEHKKV QLRNLFIEYP DMKWILVGDD GQHDPLIYGE AVEEHPNRIA GVAIRELSPG
EHVLSHGTTA SLSTITTNGG QGVPVVHGRD GYELLQRYET KPFA

> aaRXA01470 (1-426, translated) 142 residues
MTNNALTVPT RTRHQADLLT ADFWEDMGLP QLKTTIEESI DDVALPMHTA VLEISGMPKE
LRQTVESAMV VCIPSPSELS GSNRDPLTAR WFTAWRRDPF ELGLTECREV ITGTPRELDK
LRGVLESLAD EYRFEVELRI VD

> aaRXA01471 (1-807, translated) 269 residues
MQSFKTLESW PVDNVSASVI SDGAVHFYGD VDRVFELMSV TKLLATYGFL VAIEEGVFEL
DSPMGPEGST VRHLLSHASG VAFDKPVAEK GVGERRIYSS AGMDILADAV AAEAEMPFAE
YLREAVFEPL GMENSELWGS AGHEARSTVA DLTKFGQELT APTLISPETL AEAFQVQFPE
LIGTVPGYGM QKPCPWGLGF EIKGQKSPHW TGDLMPENTA GHFGQSGTFF WTVPGSGQVG
VVLTDRNFGP WAKPLWTAFN DEVWAELNS

> aaRXA01472 (1-456, translated) 152 residues
MNQANLPAEI ADLSDETALW EIINEYNWDD GFAVPLAVVR HPKCDRALAL RLFWDIDETA
QIHHSDEESA IAELYASTAE NDPAEFDRIM DYCTTLVEGL RKQTYPRGAN RFDTGFFNLE
DPSLTDRQRK IRAGKTKFAL KNFEEAFLQP EL

> aaRXA01473 (1-765, translated) 255 residues
MTDIGDVDQI VWEFIHFHDD SINPFFEFIK SDCINDEAIE RKTQILGIIL GNEPCGSVIH
ARQNTIKPMS HTVSFGDGWI QVLEDAAETV SITDTLDALR FSPEQAEWAA EFGPLLCGPA
NQPPAYLTAL DGHTKLPLSP QLTEFYSYAR SWTNSEALGN VIDPDDYLDH LTDPRLHLQD
LLDNEFERVG VLVDKQNRPL DPARCALFSL DALARAPYNR AYFVFAAPEP EIWAFENEHV
HAPDLRAYLQ ARLST

> aaRXA01474 (1-546, translated) 182 residues
LVGIAYARFP DTRDDSISRG KARSALEKST GLKERFARHF PAISIPVDTG DAADILVSGW
WLSGSKKKIL TAAEIQTLFI NRLATGPLST QLETATGLKL QVVTNRERMK ITLIEPKGTS
GHAIDPQAGK GSRGGFLLDN GQEDEYDDVD TVTIPDALNV IGYILTHGTP PQEGWKVDVL
ER

> aaRXA01475 (1-426, translated) 142 residues
MSIQGFSAGD YSACFEPRID AWVDIRGPRK PEWLAENIDN PLRHWGDNPH IPVSAAKKAG
NIYKETLRTM RASTKTPDQD PLKETLRSFI ASINQLAAKK NFIDAGVRED IVVALEKLCE
AAEASPEEIQ QAIVMGEEFI ED

> aaRXA01476 (1-342, translated) 114 residues
MSDSPCTVVI LNRTATATSI LRDIKALTGY GLSEIRSRIV AGLPVVIEEM FSNAWYDERA
QLLLALLTKW QNEGITFEIR EVAEDDPIEA GALISLEVLR NIIEPDDNES RDGI

> aaRXA01479 (1-228, translated) 76 residues
VIGAAAGYVL GTKAGRKRYH QIKKGYEAAI NSPATKSAVN AARKAIANKL DPQPRMKEVK
NLRTADGHEV LEQDQD

> aaRXA01484 (1-546, translated) 182 residues
VLGTAQYDGV PSRQFAARLR HAAKLWRLHE IQHVYTVGGK LPGDRFTEAE VAREYLIKEG
VDPDLIFVSA VGNDTVSSYE ALDPEKLGRV LIVTDPNHSY RAVRIARRMG FDAKPSPTTY
SPAKFPSIVY FLTLSHEWGG VVVQDVSRLL GERVPDKVKH LCAQSKVCCA LRGVHAMSNF
GG

> aaRXA01485 (1-2052, translated) 684 residues
MNFSLVHLRE NVRRVSVTVA IGAGALLISG PFFTAHTAEA TETYVLAESP EFYQDNVTDY
TGQISSSDIT NIQAAIDDVK ASEQKVIFVV FLSSFDGVDP ETWTQQALQA NGGGNVLIYA
LAPEERQYGI QGGTQWTDAE LDAANNAAFQ ALSQEDWAGS ALALAESVGS SSSSSSGSSS
SSDFSGAWLA AAGVGTVAAG GGIWAYSRSR KKKTSAATLE DAREIDPRDT NRLMQLPMET
LEHLAQEELT STDDSIRRGK EELAIATSEF GPERTRSFNR AMNHSTGTLQ KAFEIQQRLN
DSIPESEAER QSMLVEIISS CGQADDALDA EAQNFADMRN LLINAGSKLD ALTQKSVDLR
TRLPKAQETL AGLRTRYSAE VLESIDDNVD LASASLDEAE EVLPQAYEIE SMPAGEQGGL
IDAIRHIEHA ITTADKLLAG VEHADENIST AKANVADLIQ EISDEINEAG QLKQSAGADG
ARADWASLDD AVRAASAALI TASADAEKDP LGTYTELVDV DSALDTQLDT LRATAADQAR
QLRVFDQQLQ SARSQIQKAE DLISTRGRIV KSEARTHLAN AQKLYAMAQQ NRTRDTRAGI
DYGRQAAVAA QRASKSAQND ITTYNNRHNS GGGTTGAIVT GMVINSILNS GRGGGFCGGG
GFGGGGGGFS GGGGGGGGFR GGRF

> aaRXA01488 (1-831, translated) 277 residues
VLLETGAVND LALLDLFGAP EVPVYLGEPH AQTKDGFEVL EISAFIHGQN GIGEVELPAS

ESKALPGAVD FLIDSVNTHG DDLVIIATGP MTNLSAAIAK DPSFASKAHV VIMGGALTVP
GNVSTWAEAN INQDPDAAND LFRSGADVTM IGLDVTLQTL LTKKHTAQWR ELGTPAAIAL
ADMTDYYIKA YETTAPHLGG CGLHDPLAVG VAVDPSLVTL LPINLKVDIE GETRGRTIGD
EVRLNDPVRT SRAAVAVDVD RFLSEFMTRI GRVAAQQ

> aaRXA01492 (1-804, translated) 268 residues
VTTTLWAVSD LHAAVKANAD PIENIQPKDP SDWLIVAGDV AERTELVLEI LARLRRRFAK
VIWVPGNHEL FSRSADRYQG RDKYSELVEG CRKIDVLTPE DPYLTFGGVT IVPLFTLYDY
SFRRPGFTVE QAVQAARDRQ VMMTDEFSIA PFVDIRAWCW DRLAYSIKRL SKINGPTILI
NHWPLVVEPT YQMRWQELAL WCGTRHTRGW AERYNAEAVI YGHLHMPGIT NVNGVKHIEV
SLGYPREWEH WSGQHVWPYP VMEVDNAG

> aaRXA01494 (1-996, translated) 332 residues
VTDNSQFHAA SALVQAAHTV SVVGHLRPDA DAIGSVAATV AALQQLGKDA VGAIGQLDSM
PENLYTIPGA SNIKFGDSLP ESDLIIVVDC GSIERTGAFE SIIVNNPDKV LVVDHHATNP
GFGAVNLIDV EAESTTTILY DWFDAMSVQI TPDIAHGLYA GLLTDTGCFR WGRPVMHDMA
KELMEFGLDI RAISSALLDQ TSVDDLRLVG QIVSRIELRE AGPYTLAVLV ADFDTINGRS
RAVVEGLIEM VRAVEGADFG AVFKEYERGV YTVSLRSSNL SVASLAVHLG GGGHIPAAGY
TARGTEIEAL DTLIEATVTL GESLRSSAHV DV

> aaRXA01497 (1-918, translated) 306 residues
MVGKLPIMAE TNENDLPVID LAQIEGYVVD DSDEDDPVLL RPDGTPIETW REDFPYEERV
TREDYEKVKR SLQIELLKWQ NWTKETGQRH IILFEGRDAA GKGGTIKRFN EHLNPRGART
VALEKPSPRE STSWYFQRYI QHFPAAGEIV FFDRSWYNRS GVERVMGFCT ESQHAEFLRE
VPMLENMILG SGISLTKFWF SVTRKEQRTR FAIRQVDPVR QWKLSPMDLA SLDRWDDYTR
AKEEQFRYTD TDESPWITIK SNDKKRARIN AMRYVLSKFD YTDKDYELVG EPDPKVVLRG
RDQIGD

> aaRXA01501 (1-288, translated) 96 residues
MKEVAVNEVP AGAQLIDVRE TDEYAEVRAQ GAVNIPMSEF VGRIDEIDLD RDIYVICKLG
GRSAQVAEYL EQRGIEAINV NGGTDGWVAA GLPTEA

> aaRXA01504 (1-609, translated) 203 residues
MNITWLILAG VLAIIAVVFF YLSAQKKKSE PQPPRQRQDP LKFADGSDTF NARILGPGAI
ISRGGVDYVC RGAIQFRQGQ YIWHEYLLDG GKGSEYLSVE YDEGQLNLGW WITRPDLAQQ
PAHDVTVEGV RYRKTESGVG TFTSEGTTGV ADQGEFEYWD LAEVGGNRLL SFERYGKDSP
FEVSLGWTVL PGELTVYPAP EAS

> aaRXA01505 (1-498, translated) 166 residues
MIHHIDCMPT DVSAEALGVS WNGESPEVLV DKLIDASPHP STCHLAVIGG SHVVTVETPD
GRFREEISCH AQEAEDSRWP LPDSITRENY LLQTNVAVLS EEDFARAAEE ISNGDDDWLI
ASFPGAGEHH LTALTAEFLE DVWEWFSHHL YPEELTIVST RSIYKP

> aaRXA01506 (1-411, translated) 137 residues
MSSRNYRSIG FILLFLAVLC LFAAVFAKPA VGSQVSDRWP GNNGTYSCAG ESGVVDEIVN
MSTPTDRATD PATGDTYLRY SKNLIIISGE GTPECTITVE GLDRVNSGAF IWLGGGFGPS
SPSSSSGGSS GSGGGVK

> aaRXA01507 (1-423, translated) 141 residues
MSQYLVDGVL GTLSYFVLAA VILVVGFVIL DLITPGKLHE LVFVHHLPNA AVITVAQQVS
IGIIVVTAVL TSSDILSEGL LETAVFGALG LVIQVVVMAV LEAVIPGRFR DLVEDPKLRS
GAVVAAVILI VVGTVNAACL I

> aaRXA01518 (1-474, translated) 158 residues
VAFMQKTSAG WLIATGGFLA AVSAILTWRF YGSMTSISIT VSITFWLLAV VCGFAGVKVQ
GRLDEGLIGQ DKSQMNPVTI AYLAMLGRAC AWGGAIFGGV YVGIGSYVIP RAGELSAASN
DLPGVIACAL GGIALSAAGL YLERSCEAPP PQSGEAIS

> aaRXA01519 (1-747, translated) 249 residues
MNQDLSHEDS GDGNSVDRGQ ILLAVLIGLA LIASVIMLLA NSDGAMKIAL LAALWAAIIG
FFLVYRSRKQ VEAAAREKET LEYAHQSELN RLEAELVQEK MEISESRRAR DQETLEEIKL

QLEEMRTQLS ELSGREWGYE PTMLRAEARR ILELESQQLS QQFQAPQPEV PEPVAVPEPM
PEPAPVPEPV PEPEPVEVAV EAEEEPAPGR RRRRHAAPEE TGGRRRKDER QGGLSVADLL
AAARKKENN

> aaRXA01520 (1-384, translated) 128 residues
VASALDELGE TIVGLLVGEL GGSIVEIADD KRAQLAAALT YAGFLSTLQR DASYFLDEFL
GDPDVTSDIV MDSAQQFQAL PSLDEVIAQY DSINNPGRQR LFRDLARRQA EISRAQDIEL
WAIQKEDR

> aaRXA01523 (1-951, translated) 317 residues
MKNWQEEFQL VNLTKLLHSD TETSAAISNG QMIKLTHEVA INAEKYRSLP AWDKAAARAF
AVGMTVDKAV VAGQSAARLW GYQTLTVEKT VLCLLPERLR SKSSKHWPSG MRYKDRYLSS
RDIREVHGIR VTGAFRTFLD IALDDGVVAA VVTIDSARRQ NPSLTREKLM HSAESFPRHR
GVKAYRQAIE LSIPNSDSAQ ETRARLILRE AKLPEIQSVK VQARFDQSHN KYFLVDFLIN
EWIIVEIDGR SKYDSPELNE VLMAERDREK FFLNQGYAVL RIDPKQLDLN QDGECEFIGI
LKNTLQKTPP EHLKQAA

> aaRXA01525 (1-1722, translated) 574 residues
MRSFQSILDL VNSASEVATK IVLKRFEKRI TSETDWVPYQ RFSLWSVGSP LTIERKGPDV
RVSKDNTAVL QRYQRPEAEG LISYFMDPKP WITELAGLNL DDVSEDTVAG RTVLVVPLSN
VILSIDAEFG MILTAENDIE KIHAISVELL EKWRSSHYPE PHFPAAVLPP ASTGNRNLRV
LCPEFSIPSV NVGDQVLLFL TFDQTLPPVD QLETTRRGYT DPIQLDYDHR QYRFHADGWD
AIISTVEPLH DEEELTGYFL HRLDPDSAYP TIAVVTAAHY HGTDAIIDVT LDGVHPPKNQ
ETLEGISTST SDGDIFWLSD ESLPFVRGFS VSTGELLHEI SIPTFQEIVL DSANRARVKQ
KQWPHDFSDC KGKTWELPDL KEVFEAVPSI PAGWRLLDSF GKNLHNVTRE NPRLNDNFWL
QTILRLKPFK AVDLDIGRSI ITAIYPYGDR IYLRASNHHI TFNQDLEILN VEVFGDPEVP
ESGLIYLPPG DSPTLGFPTG TLMMFHEQEG TYAFHDPETT EQITTVNLDR NSFSVAYSSR
TKIVISLKNP ESRPTNKLLV WEPQTGWREQ NLER

> aaRXA01527 (1-2511, translated) 837 residues
VIPNPNPNPK AKTLRLVSAL TAITVVGFSA SPVHALPIPL DPSDPAVSEL WVNPNARADD
ELSGVDVEIS DFVMPNSNLT VQVGESFKAQ VRVTNRSSET LSNITLQARR AEASFDMASA
RVAATDNNYG YFGAMVTLDD ELEPGESVET EVEISTDSLS ISQPGSYPTM LALSGQLDGV
AQHLDSQRFL LPVLSDTTDT EDTATPTTMI YPISAQTNVL GGETGEAPEE PPLLVSSDAL
AGELDEGGRL QKLIDAYLQS SPAVQQATCL AIDPQLLDVV DRMTGGYTVT DTRPSTVRQN
QRLRELWTAD NQPTNGVAGT GAENAAIFLE KLRQATATSC TVALPWANAD LNAVSQTGNQ
WLMREALQRG VTTFEEVLGV IPESNVVIPG NGFVEPSTVG DLGWAEVTLN PDQAWEVQSE
ELVAAPDATE QSALDNPKPT PGTVTPPTPM STVSVLVSDN TVWRTTSADR FHSLAPGITG
VSYQGSLSAT LATLGQNPET VGYSNPDSRY DYAMDSESAR NLTGQAALRL TVDNGDEDSP
VLIMPSAVLG AEDGAMLLET TGALLADGSA RPFSLQQYVT ANAEQRNTLA TATTPPDDTA
FGAPYDDPAS LTETEILRTT QQAEYIDDLT GIMSNDPSIA LTRYGFTAPL RQDLLRALSI
SERRSLARHT QATSAADKLL NRNRDTLQKL RSSVALLPPG NVYTRTSESS PLLIVAQNGL
PLPAETQILY SGNQDAHINT PGVVRIPAQG SITLQMTADL PDDNLRTDLT LWLASPDGAT
ISEPVEITVQ PRPNLGTTLF FVAAGILAVG GLLFIRKKRN VEKRSPGTGS PKPPPTH

> aaRXA01536 (1-1242, translated) 414 residues
MAFGFFSRRK KKNKDKNPNE NSAVPAHSED SPQEVFEGNG RQVGDPIEQQ VDRDAKGRLT
AADFLPDADL PQLNRSRANM LRRELEYRFS LQNAHINIDG NTAMIQRSDG GAAHVSLRTL
AMNAAGLDNF DQLPELVESF VHGTLADATL NDLSTADLYK ALRLRLLPTP GEGDDLVEHG
LDRESQIRDD SILRTFTSDM SIALVLDTEH AIRIQPLKEL EEFDDLSALE RAADRNTWQE
LYDANVDASF VDAESDSEGS SFWAFESNSY YLGSAPLFLN DLLAKWAPDL DQSDGVIFAV
PDRDLLIARP VTTGEDLMNG ITAMVRIAMR FGLGNPTSIS PRLHLLRDNQ VTTFTDFRVV
SPEMEAEWED SAFDAPPAGA IGIEVRPDPY LMERLQQGGF GDFGDFGKPR DLDM

> aaRXA01539 (1-1923, translated) 641 residues
MSSSDLASII GVEQQPVAYG ESEEPETLRD VLPRRKLHPS EITPSYEVAD GEQRSIFGES
APSDFDDLSD VEEFDTSHWV RAGQDDRSDD DRLADEAGVP PSGAQDVADN EANLSGVDEQ
LHMREVHAQS FDPIDVAKKE RKAAEKKYAK PPKSDNPYLA RDAKDAAARK RKINAAHDNF
AQEMAQAAMG PLRKGVNTQT VMAACTTAAV MWCMSPRMTG VNVDMKRKFN KDLEQAKDTK
LSKYVSKDFW KSKLTRDKTE KEAKSLSDAF MQQKTAIISN RERIPMSVAS AAQTVVRLSD
QAYEAMREVD TDGQAIVDAK DVSAQVAEDI DMVVKQGEEH GLKSKDIYGA ARDIVGRRME

RDPGYAARFN ETAFGTVRLG EQRRGMVISK TPTWQFPDGA GLSKNAGWFS VREPMGNAQN
FADNLAATLA TEMRVAGEQY GSDGVRDVVA GFMTATDVSE SGLASAKKLL PDFDTRGRSA
SRVRQIAMAQ RTQAAIKVLQ DDGNQTAMTT EQVKEVQVWA MDQAEKVMQR DHPAILDKFV
RKHGQTFGQD ADAFVKSITM EKDTSSEYTD AMVRPQENRG SGRELAARRR VQAAQINQAA
QLDMNVHDFR ESNLPEERPA NPYEAYVRET EAKTNDPQYG Y

> aaRXA01540 (1-702, translated) 234 residues
MTFAELSSPR TIIAFNGRAE SGKDTAAQYL THMHSFHRIA FADGVRDALY ALNPLVCVEQ
AITTHGAIYD RVATVVDTLG WDTAKQIPDI RALMQRIGTE AGWRIHGEHL WVNLAIKKIN
ELPADHAIVI TDLRFPNEIE WLNSLKANPM NTIQTVKVIR PDHESTLTAG SFGTTSHISE
SFNLTTDTVL RNDGTIDDLH SKLADFLSTS PQPVLSRNAP VPKHNAPAPT TDAM

> aaRXA01542 (1-5061, translated) 1687 residues
WGQKDHWGKA PLGDHDAVRI YRQAEALMKQ RAANNKGLDL NDEATYGAIM FASFDDAFAA
DAEAHGCVHR PQFAKVTRRN ILNSPQYTAI KSSYDALVQQ DLVAQQQQAQ ALQQAAYEQE
QAAIFQARDQ ATFQAEQTLA QESVRQSEGV GLPVIDPMES YFREYAFYEG VEMFGTWGTH
VDAGVSQFST SDGRAIRALV DEHLATYEPV EQRGSTQAFF ASVNAAFAEV APHAAPMFSA
IAREGEGSKG YQALRHRFDK MVGTAIGPNG LPEGPDLGGR RLPISPYDPR WSDREVVRVH
GTKLLSLSEE SVGMIRDLDL ATIHLQDNDV YEGTHREDDT KGGVRPLTQW VNGEAIAWRT
ITENDQMRLP NIGQFMTAKE YRAAASWLRA GLIDTADVAS QKIDPNKVMS DEGIARSEAI
LTYLSDEGVD FRIEPDREPG QLKVRIEGTR IDIRLTDTRA NEQWVGRVYD SGTVIKYSAE
QTAEERLRAR ERMENGDGTW TPATDYEPSP TEVVDLVKFA LGREVERQDG KGLVGVPNAR
HPRALEQAQD AYFTKNRSAF MVREGLSIVQ DARDRSAGPG KWFDNEAKAS EWLGNNIALT
RARVAEELGV EELIALSAQY ADDPDFMPAF AGEDELMAIK QDYWAMLRGE ETDLLNPGVN
RDDYMAAIRD GDHEQIAAMT SAMNAVTVED RVRQHAALVL DDYVGTVEPD PVTGLRFNPV
TVAQHMPSAK SLWSNHDDII AALRATSITG DELRGDEFYN DVINQQLLKF NPETAQKMVN
NPDLDPQLAR FGTVIAETIS RNGADVVDIA VDDNGVVRWT AQRRVGAKDS RAVDSKGQVR
GERTRHVQGE IGQIFTRGEH GEIVTKFNGG ENYMFAPGYT ASVVPQKPGE TKSLEERTKL
KGYEQVMSEA LVYRVREDLM FTERSRVGAT TSINSAYKRL YDNRFPVDFF ERSAEEGLSD
EWRAALLETA SLRVRYDNSI RDGANVMEDI RAQQRGFDAR NDNSRDALVL TGGRNISVLD
VDAGKGFFDP MMTGMAANQG SVRYLLPSAK VGADGMITPG DPADRVPVAA HPESWAMGFD
PHDRQNMTFS NIMQASAVTG GARTAMIQLG GWNFEDGIIV SADFANTHVI RDTEDEMRPL
VAGDKLSDFH GNKGVTALVV DPAMSDADAR AAGLESEVAF FRDNPDLEVV MSPFSAISRF
NGGTARELMT NPQDVVFRNN DGSTRVQPGA SGDLNFIVTH MAVDAKTNVY DEEAVREGQG
RKASSQLAWV LQAQECHEIM EHFYGNNVSA LANFQEYLRV TGLDVTPYGE LREGFSESNE
QRNIIEMPSI YDENGELNNR VNRAQVREAF VEQISRAGGV MEIPFQLQLR NGAQLEESPN
NPDMYQLPLL SPHLRSDEDL ADGSTSRHEY TTRYMAIFDT CYKLAEEQAK IDALRQEEAQ
HGTLPRAAEK RLSESQKFVD QAQKKVQASF DGIANDIVAS RIETKNNVFK DGFMSARQSH
SATAVWTGDP RLSVDEVAMN SSMARELGVL DNGYAMVWRD PVIRDGGVRY LRVVINDDLH
GVAVNPVSVK SFDGDFDGDS VGLVGNLPKK AHEEALSRLT VEANMLDLGD GKRMEDGTMF
YGLTLHDSLD VQVAQHHDPA MAENMKVIVS ELNRYQREYE AGEISREELL EVNRAHMDDL
NEHYAQA

> aaRXA01543 (1-2766, translated) 922 residues
MSLKQAIIVR NEYTIKQANG KGSRGSSPGK YISGYMARSD AVEAVAPIVR NKLDDFIMRY
MARDSAVEQL TTDSNADYDQ QPEMNSRRGR QGRRATLKQR RAERSARRAA LRAGVNTDSD
TTNPSQPVHP RELAEFTTQD GQRVHDLMLR AQGNGGVAFG YGDVSLSHDD LHAASNNVQE
LYENRHTVMK VVLSFTQDYL TAHGLIPEDL DIKRAGDYRG QVDQMKLRMA VMHGVDRLAQ
RHYDDLRYVG VIQVDTKHVH AHLTMVDAGY GHRAADGTQK GKINKPGKAI LRRGIDAWLD
QHQHMAHLSA AVGYEKRNVT SYVKRWAFHQ LTQESAAQFV VACLPEDKRL WRASTNAKEM
DKPNRLVREL VEARLGETDS PMPAALSQVY QYAQKRRVKE GLSKQDTQRL IDNGREKIIE
QAMNGVYSVL SAISDEQRDV STAMLTVMRQ DYEDLLDGIA RKKSKDLDEQ GSSGSQEVGK
EEPEPSIEEF GLRLRSYSAR LNHHREQREA FAVKKRSWED ANSQGLADPT SQVMWSFYDT
EEQYHAMCQS KYQHFLTFAP PVGQWEKQWA EVADYGKRVV GLRALRADRS LARMSDERAA
EALGRQLYDQ PGGGLLARTG AEGKAGRAVL DGRIERMMVT YQQKIDDLRR EWAQLGARLE
VEGDAVLMDA ADLRESGGEG ADERQIQQQT IELPVADVSD SVRTYLDEEL RDSRDVSAHD
PVHTLRGRFQ VVFRPEHDFE QVGGPDLRDL HYAWFSDQKV SQPIVCSYGE LVTQRRYAFE
RAREWMISSQ QEPEAVAEEL DHAGADITRM EATSSEVSRT GILRSAMLAR IREQARQRAQ
RAAEEQARRE RELVAQRQQE IDQETTQPAF EVVQRHVQPE SVQIKRGRTV ALDKRVQPLI
RDAVDRAVLD SQLRSTRDGG LG

> aaRXA01544 (1-600, translated) 200 residues
VKLDDAMVMI EQRLVKGRGA TKTQLAPYEH IQRNIAARGL RADDGGSCFG YGDASLSNDD
VATAAEDIQD LFACGHTVIS AIVVFDKSYL SEHGIMSFDP NYFGQDIYAD THPEIDLMEL
RLAVMNGLLG LEGTFFEDMR YVASIEVSRS YVYAHIMMAD AGVDDARGNA QVKITDTERV
LFRRGVESRF VEQEARNVVL

> aaRXA01545 (1-1251, translated) 417 residues
MKLAGFNTNS PAAQRVAEQG EKVQLDAPVY AVFTPDVVEV EFIGTQHEPV LHVEGAIDSV
TALSQLPYDI QKITFDSENQ QRFSGFYKFS PQQHKELIDK GLYLEGFQPP REMMTSLPWE
LPMNADVTVV APESQDAPPI VLVGLSEIHG VDFSQESSGY ELTSMFEDYR SQREAGEADK
DFSESISRAE IEGKDIFADA NRTRTGVSAH AQRLEQERAL SAAQLMAKLA GISFQTEPVL
VGAEESFDAE QFLAHDLDDT AGMSEWEREV TEFYNEKIRA QEPVVEREAE RDSDIETEVD
AAPTVSAAEI NDVIHDLDEL EFDDVIDLDA DDVVNTAEVE APASVSAAEI SATELDFDRE
SRAKTAQREA SRRVAQKIQT QESVREAYIR EQKHGYDASP AEGRKFDEKI AERGLDL

> aaRXA01546 (1-696, translated) 232 residues
MARAKNKKQR QLQHAHDAAQ AEIAEAVAVN TVEPINARTG GWPSWVDKVW KLTGSLGGWF
AFLVFAIAVW PVAILAAGTV VTIIGTWGVS VLPSLVISSI GASAGVIIST TDGFLFSWVI
PVLFLMIVLA LVVMKVLNLI FGALWRFTMT LRQGLYAGRE KISRDDAKRA RAEKKLTKQQ
AKEAKKQRKL DAIYSAQQAE ETLAQQAQSE PEESDDKNRH DALNDAVAAA RN

> aaRXA01547 (1-663, translated) 221 residues
MFDQVKRFFV RNIVMIIALI LAVVVIIVAT STSADRHAVL KRQTGEIMAL QQERDALNSK
LEGQLEQVVR DATGGMDIEH KAADDAVVRE FLSMALTWDS VRDYLDVREQ VMRVYDLDEE
SQFMSVFMPG EMAGIARTDP TGEVHYAYDA DLSNRFSSLE SVVTRINGTE YSYVSTVTMK
SKRSGGEAET TSTSRLAYDV IDGKIRNLEA RTVPGGVKYS G

> aaRXA01548 (1-1008, translated) 336 residues
MAENNGGSDD LKPISVDGVV NGEVRSDKEK QAFEKITGDD LRRRAEQIRK RRLAKAQEDA
RKRKPLFGLG RIAVTVLAGA VFIGTTLWIS TTSGGFDDKV SANNEQIVTL RNEVNDLKNT
AETMPKKETL ASQFDAATSR AQNVADLQNQ LAGIITSVDD DAATEQFKTI VDELKPKFTV
SAGTTGEFPA AGRWYQPQEV VVGDNNRPTW APMGAESWGW TVTPTLSMSD TEHVVVMWEA
RLTGGERYGA LLAWVTADYN INTGVFSSLA LAHTYEGHQR IGATTSPSEF GAHGTNAEAS
AARAGSEGGG LEGEAIFVDE LQRALEIAQL NKQENR

>aaRXA01549 (1-861, translated) 287 residues
MVDNKNSSSN SPTAASEYFL REWERPADVA GNAPIRAEQA SKWYAQMGGW QKNSTLGESV
IAMADGAAAK STARDEQDAL NDCPEEDRTS GGNTSAAEAM VTISHPYLAD SRGNDGTDIY
RYIHDEVLTG DPYYASCDRG VATAIRWSGT DDTFPAGPTA AQYEYVVGTG SGRWEEIGNL
ATMSENDLLP GDVLLGAPNH VAMYVSNEVV VDMLGPGNAE PNAAIGHASL NDRSPGLDTL
SLDGWGVNFK VFRNTQAETN SVFSGVQIPA GKEIGEMTNP TRTTPAG

> aaRXA01552 (1-978, translated) 326 residues
MYLGMKEDSL APPQNRFESH KTVFSLKQKN IPIKDAAKSD QVNLTWHDYP GEWFEGGAVT
DSEKQDKVET FRNLLGSDVA LFLVDGQKLH DYANEEERYL SYLFDGFIEN LNQIKDAILE
GGKQLQQFPR IWVIALSKAD LWPDLQVKDF ENLLNKKAGN EIIALRSKLL EFIDNDEAFS
FGKDFLLLSS AKFTPGHIDI SQRKGVDVLL PLACVLPMQR HLWWQELKVL PINLADILLG
NEIAQMGFKI VSKVLKNKVS GTNNKAMAAL VFAELVRDMV DQPTELLQKA REEAVGRREF
LKAITAEFTR KLNQAEADQV LVRDFA

> aaRXA01554 (1-2142, translated) 714 residues
LKKHVTSAVT AVVTAFSTAA LGLSIAVSPA VAQVANPAPD LSAPYTWVEE FDSEDALKGW
NIFRQPDYGS DKVLYTEDAL SIEDGKLTIT TQRHCVDEDF AISDPVNRGK LNDSTAQVEP
CAPGQFEKFT SARIVTPKIA RGEFDLSVTA TLNTGGVEGV RSAIWMQNGE QACSSATNNG
LYGELDLVEH FSYDLRSPWS PSNTHLGCDP ESVNGTNRAP RELKLDESLD GVEHTWTVST
TRDGVEYFID DEAINRQSWR NDVTLGHAEI DDFGISAQTF DEIVDREWTL TLNQKVESAD
WAKPRSSEED FPVRSMVIDR IEVTGSPAVS EDTPMPDTTQ LLTQDTLEYL GRMPVLERYE
PASADFADGR RPSWNYFNLK ESWQNPELEQ RPEAVEFVDG RMDIVTRRHC LATTDDIATP
ENAQEEPCAP GEVTRYSSAR VHLPEIPAGN FRLTVRARAQ SEELVDGVRP AIWMQNNTNF
CADNDGRPYG ELDITEFYSS RVNTQYSAVH LGCAGNRPEM KLRQMEMEES MFGDWHDWGV
EVFDGQIVFT IDGKAVTSSG KDVFGNSVTP AAAPLRPAHF KLSEEEYREV IGQPWHLILN

TMVEQSGKDS WITAVDNNEA FPEHRFQIDH VAVDIESDSV DNVWPDAANE IPDNVGIEDS
DDGSDLEVGS TGSSTAETVS WISLFTALSS LVFTLALNQE ALQNLINQFM RQFK

> aaRXA01557 (1-816, translated) 272 residues
VRSSNPVFSS LKETQRPQGQ NPYGGYDNFG GVYQQNVAPQ KAERPMTVDD VITKTGITLA
VIIVFALVTF GVWLVSPGLG MILTLVGAIG GFITVLVSTF GKKYGSAAVT LIYAVFEGLF
VGGISLLLSG FTVGNANAGG LIGQAVLGTI GVFIGMLFVY KTGAIKVTPK FNRILTGMMV
GVLVLVLGNV VWALFTGGAS PLRDGGIIAI IFSLFCIGLA AFSFLSDFDA ADRLVREGAP
SKMAWGVALG LAVTLVWLYT EILRLLSYFQ NR

> aaRXA01560 (1-330, translated) 110 residues
VGVSYIIAGD EQLDMAEAVR KIGETFKTEE IILGGGGTLN WSMLRDGLCD EVSIVMMPIA
DGEKHTHSLF EADEKYSAPL PIGFSLASVE PLEDGSVWMR YGVNGPVDAN

> aaRXA01574 (1-1035, translated) 345 residues
MSNKRIGVVI VSYGHEQDVA NLVDTFADQL KTGDRVVVVD NRKPWVLKDA VGERLEKHGA
EIINHDNGGF AAGCNVGAAH IVDDVDLLFF LNPDTVIDDP TLFNSLRRVD EQWAAFMPYL
LLPDSTINSA GNALHISGLS WVTGLDEKPV EGSSEVTDIS IASGACLAVR VDWWKRLGGM
EELYFMYHED TDFSARLLLA GGRIGLLHSA YVTHHYDYAK GDYKWIYIER NRHVLLLSVL
PLPLLFVLIP QILGVNLGLW AIAAKEKRVG LKVKSLRLLI RDLPAIFKLR RSTQELAELT
PSQYLAKMEW RLDNPNLGNI GSNKIVATGY KTYYKLCMSI LKLLA

> aaRXA01575 (1-1020, translated) 340 residues
MKSIDLEQLA GTQSRTYQSR KITDEMVARP VHVAIALWEV PWESAKSGKI EGWVIAVDSP
RGRFVRSGQT KNGDAVNRTV SMLKSALKGV RGKAWIVTGR RQAALRAALV RENYLVTGSF
AEQNRAGVKA SAISRRAEQS ALYKAKKIGE FAERAPRVKE RQEAHWWPRL SRTQGTAGVL
RLATDASTDG VFRGAMCFVA SNGDYLLETQ DTTASSDELE LESITHALIY LKTIGATQAI
IESDSKAALE AIDFILNNRP RRGRWRGITA CARNRFRDAW EALIDDCVVE LSRVLGHAGD
PLNQAADQIA YMGMRAVIFE QKSAHPTLLK GIDKALRKAE

> aaRXA01577 (1-375, translated) 125 residues
MTQTTTQIII QILLLLATAA LALYFLRNRR KARAKAWVKI GFVVFIFAAV WAVLRPDDLT
QLANFVGVDR GTDLMLYALV VAFMFTTLSS YVRFREQELR YSKLARAVAL QNVVLPEDSQ
GSDPA

> aaRXA01579 (1-384, translated) 128 residues
LTEVFNTDQR VLNALFNVVE EDDSGDTDDE QHNHQNPVRG TEFAGLVESH EQRSNGHRQW
QHTKPVHLRG FFSGGFLHAE RQCEGSDSAE SSHDPEDGTE TKCFSQPATS KRVHAADTTV
DRGNNSEK

> aaRXA01585 (1-627, translated) 209 residues
VVETLSITSG AAGLQALVAR AVGLNELASA RFRQLTPEVV DVFVTTPFNV TASRRVFGVA
GRDGAAVGAK DLLQALSEGR EDVGTSRDAS WPGSLPPATG FTLVDELPTH VVRTLADQGQ
ALARQFSGPL GPPASLMDQE VISAEGNGKK AGIPMRTVFT CTSLGLIPGF EAANDVPRHL
RVSVNGRWTR VDAPYGSVYH SSGLGLSVF

> aaRXA01586 (1-369, translated) 123 residues
NNAAFIEIAQ EARLAFAEDQ FRERGYEIPA VFVRHLEVDY LRAILPDTTQ AVVETQVTKI
GNTSFSTRQE VKDRNGRVCC VVECVQVAVN VQTAAPRSIS KVERKVLTAV ATDEVQSQEA
LEK

> aaRXA01587 (1-1983, translated) 661 residues
MTDFFGLIYN WSVTVGWLIG IPVSIGLFMM GALMFRRMDK GSAFKKVVIR VVYGVVGLPL
LGVSYTGALD SFLDSGSSTS AGSNATKIVL STYVDFQSWA ENTRMRVPDK VTLAWSLEDQ
APTGQSMRMV RNSALEINAQ SNESFTTFKN PGSMDLGYSM DWMEKMADPA NSGTDGTSSS
SATTIFQGTI ALLSRYIDND SISSGSFETS IRSAMESLTS KEGSGEAVAG GDVMAWVTGY
NTASGLNEIT AAELADANNP LLEVSDSAGL QGRPIDRNAV SFKSGDATAS CNNSVVTGSR
AVVGDYRSDC NMSPLTMYNF LNTSFHPADA SVFSTSTSAS SYTRASHSAV SLIGSGAMNF
VYWFSAMSLM GSFIVIGIGY AGAMLFNTIR RTLSLIGAVP FAAMGFIAGV AKVIVYTIAM
LVEVIGTIIL YQLITRFLMA VPALFEQPLA DSLSSNESAE LVAGAGMGLV GMALATSGNW
AIAGMVITVA SSMGVIIFTI IAMKVRGSLV SGVDETVTSV INRFLDTQVS SAGATSGDGM

MRRAAATGLG IGATHMVLNR DGDGGGSDSG SGGSGGGSDS GLGEKAAGLA KVVTTVAGAG
LVGKYATDAL DNYADGVING DGDGAFAAGG DATVDGDYVA DGDAIASADA NADFVDGVAD
G

> aaRXA01590 (1-1284, translated) 428 residues
GKLKEYATYI GADPAQGFKD VGQPTPEALR SHYEGSQKAT AIKVLFTGVA GKKEQEMVAL
CRNLGLTKEA MAASAPAQQS ILQAKHDPID ALYRAETLMG PVGDLYQGRK MRRGENEQGR
YEWEVVRDEN HQPIQATKDE WVQQYMEMYA DDKGMGVSVG VDQVEKIAEE FSDEQGYMRV
LSHDELPTEI KPLALDQLAY GDKKNRFDLL CEMAKQQVNI YDGDAYDFAP RVVRANMKAM
EDAARFGIPD VEIQSISAQQ SLASFERVPQ RSGFRIERRV PAEVGTGIAA PAPLPDAGVQ
GNYVQQQVPA TPPVMPVTPP AQQPVSPAQT DFRGVGQPLD QGGKIGNYGH QGPAMGAQQP
VVPQQQNIPP VHNPVPQNSV PPTPVVPKPG TGNPFTHGGA NNQFMGRFDT SRYNQQEPPQ
RQDGGFEL

> aaRXA01592 (1-1293, translated) 431 residues
NFDRSRDNDR SSARTPRGDR GDRGGYRNSR GNDDRGNYRQ NRDGESRDRG GYLGDRRDNR
SGEYRQRDDR RDDRRDNRSD DRRGGYRSDR NFDDRNSNMR DDRRGGDRSY SRNDRSDRGY
RSNDRYDRND RRDDNRDTRG GDRGDRRYDR RDDRRDDRRD DRRGGQGQGR PGGDRRHANR
AGAGRDQQRD SLHPQRAGFR EERLNTRLNE PDLPGDIDIK DLDPLVLQDL KVLSKDNADA
VAKHMIMAAT WLADDPQLAL RHARAAKDRA GRVSVVRETN GIAAYHAGEW KEALSELRAA
RRMSGGPGLI AVMADCERGL GRPEKAIELA REEDLSSLDQ DNLIELAIVV AGARHDLGQH
DSAIVELQKV NPSLKSTGFT HSRLSYAYAD ALVLAGRGDE AREWFQHAAT LDEDGYLDAE
ERIEQLDNGN N

> aaRXA01595 (1-960, translated) 320 residues
MTAPTNAGEL RRVLLVPHTG RSSNIESAIL AAKLLDDAGI DVRVLINDAD DPIAEHSVLG
RFTHVRHAAD AADGAELVLV LGGDGTFLRA ADMAHAVDLP VLGINLGHVG FLAEWESDSL
EEALKRVIDR DYRIEDRMTL TVVVLDGGGE EIGRGWALNE VSIENLNRRG VLDATLEVDA
RPVASFGCDG VLISTPTGST AYAFSAGGPV LWPELDAILV VPNNAHALFT KPLVVSPKST
VAVESNSDTS AAMAVMDGFR PIPMPPGSRV EVTRGERPVR WVRLDSSPFT DRLVSKLRLP
VTGWRGPQKQ AENKDPRSAG

> aaRXA01597 (1-1182, translated) 394 residues
MSLFNRKADL PGLQGATRIC TPQGKGLKRL SEGDLAIIDA PDLSRTFAQR LLAAKPAAVL
NVSRFTTGSV PNFGPQMLID GGIQLVEGFG QELLDGTKDG KKGRLTEDGQ LFYGERLISN
GSVLSGPAAE NAFADAQQSL LDRMEAYFGN TIQFIHSEAP LLIDGLGIPD TGNAIEGRKV
LIASPGDNHR SRLKELRSFI REYDPVLIGV DGAADTLVEL GYKPALIVGN PTGIGADALR
SGANVILPAD PDGHAVGLER IQDLGIGAMT FPSSVNSSTD LALLLADFHN PQMIVNVGGP
VTLDGVFENR EDSDPAALLT RAKLGTKLVD GSVIASLYTV RSSSNLGWMW ALLAILVVLA
VVIVIAGTAG SGSFTDNLID TWNSFALTVQ GWFK

> aaRXA01598 (1-963, translated) 321 residues
MAKRRGRGAA TFAALGFGAA AGIAFGTYVL APNLPENIDP NAPTSAELVE AETLAEVNAV
QADQADSIID HIVEDVVAGT LTDRPVLVMR TADAEESDVA DVSWLLQQAG AINAGSITLE
ENFFSQDGAD QLKSIVANTL PAGAQLSETQ LDPGTHAGEA LGAALLLNPE TGEPLASTAE
RGLLLNVLRD NGYISYEDGT ILPGQVIVMI TGDSDGSGDG AFAAETQSLF ARALDAQGSG
VVVAGRIHTA ADTGVIGRLR ANPDAAENVS TIDSVNRTWG KMATVLSVRE ELAGRSGAFG
SAASADAASP SLDGTAAAPA Q

> aaRXA01600 (1-669, translated) 223 residues
MVSKMHIPGT HEFTVTDTEL LLESPILGVR RDSLIMPGGS TARREVVEHF GAVAVVAFDG
ENIAMVKQYR RSVGDSLWEL PAGLLDIADE DELTGAQREL MEEAGLEASE WSVLTDLITS
PGFCDEAVRV FLARGLTKVE RPKVMGDEEA DMINQWVPLH EAVGMVFSGQ LVNSIAIAGV
MAADAVIAGR ASARAVTAPF TYRPTALAQR RKAHGIVPDM KKL

> aaRXA01602 (1-1530, translated) 510 residues
MAKTHIRLQD LSLSYTSTPL ITKLNITVSS GQCAVIVGEN GRGKTTLLRA LAREFPPSAG
EILTHGTVAI AHQHMPAGDL SVGEICDEAI RDSKNALEEL ERAGALLETN TAHALDGYQQ
ALDAAEVLDA WNAEHRLEKA LRSFGAITDR SRALSELSIG QRYRVRLACL IGGDADILLL
DEPTNHLDRG ALNYLTEAIT SHKGVVLVVS HDQALIKDVA DFIIDIDSTP DGLPRIYHEG
FDSYRRQRSA LLETWRQDYA AAQTVQQQLQ EDLEHARQRV NSSWKPPKGT GKHTRASRAP

GVVQALKRAQ DALDSKALDV PPAPAPLLLP TLKVRPDKPM VDFSDLFVPH RLRLPGSHSV
VSGDKIVITG DNGAGKSTLI EVLSGVLTPA SGSVANHART GVLGQESLVG EVPSIARDHA
VKWGLLSVEE SRFALQEFSI GQRRRLDLAM SLAGNPELLL LDEPSNHLSM HLVSALTEWL
DTTAAAVIMV THDRQLLRDT AHWRHIELKS

> aaRXA01605 (1-1515, translated) 505 residues
VTSDSPAPAT VNAVFNNSNG FIASMLGNQV VNTVVETMDT EFGVRIVDNM LVGFSTLGDG
MNQAAEGATT LSDGVGSAND GAVQLADGAV TLRDGIASAN EGAQSLADGA SQLDTGLGSA
ATGSQTLADG LSSLSAGTAQ LGQGATQVSD GVGQLVDQVA PLTAYVPDIN SQLITLRDGA
ATIASELSDP SSTYRSGVDS AVSASQQLAA GLQTLKDGSS QLSIGARTLA DGTSQLAAGS
EQLVVGAQAL RDGTVQLDEG SSELALKLTD GASQVPTFAD GADTTIATPV ETEQAGDTTP
LFGIGLAPFF MAVGLFMGAT VAWMILHPIS RRALDSRMGG FRGTLASYLP STVLGLGQAT
IMWAVLYFLL DLNPAHPAGL WMAMVAISWV FISITHMFNN VAGPSAGRVL SIVMMSFQLV
SSGGLYPPET QPAFFHWFHT YDPITYAVNL VRQMIFNETP SNDPRFIQAI WVLLFIWALM
LAISTLANRT NKVLRMKDYH PELKV

> aaRXA01610 (1-729, translated) 243 residues
VSGFLTPPAT PHIRTATASI ATAVAVALSV FAAALIPGSA LYSVLTAGGV ALGAASGVAA
LRHRGGLRIF QWLSALGGIV ILLIGIVVAV AKFGASAKLA TLGLVTSYYL MPSAALACYI
GGLGQLPAKW IAPAFMATAG AGAAGWFSLG AGTGFERFLI AVAAVFSLMG CVYPVWGCVV
KRPRQVAAWL VALAALVLGA LMLFMVSMVV APGLLWLQPT TVAWGFMIAG VLATVAGLWP
RRF

> aaRXA01611 (1-357, translated) 119 residues
MRKFRNTAIA LVSAAAITLG GVTAATAQED ETPPAAETET TSPSGSSGSS WNDYNEEYEG
DQEGYGIDGF GSSRDDSGEE VPRWLETWGK VFDALTITSV LGLVVFPVVN FLKYNGLIK

> aaRXA01612 (1-345, translated) 115 residues
MRSFRTAAVA GLTAVALSVG SATVATAEES DQNLSSGFSA LSSGGAAAVG EDWDADQPVT
GEDIFGEEHE RDNENTPAWA KNMYDLTVLG GIASLLGVIV FPAYNYLVYT GVIKG

> aaRXA01618 (1-384, translated) 128 residues
MIIIGAVFAI LAVLLHVFIF YMESFAWTSE KARGVFGTTE IDAENTKEMA YNQGFYNFFL
AVIAGVGVAF LFAGSTGIGA ALALAGTGSM LAAAAVLALS SPDKRGAAFK QGTFPLLAVV
FLVIGLLV

> aaRXA01619 (1-975, translated) 325 residues
MRAITHNTFG DPADVLQITE KEIPTPGPGQ VRIQVTLATI HNHDLWTVKG SYGFVPDLPA
AAGTEAVGIV DALGEGVEGL QVGQRVASGT SFGIWAEYAL VDASGLIPVP EQLSDESAAQ
LVAMPFSAIS LLDFLDMKPG EWLIQNSANG AVGRMLAQLA ESRGIHVVGL VRRDAGVQEL
AAQNISGVVS TETPGWEKQV EDITGGASIA VALDSVGGSS AADLVKLLGE GGTLVSFGAM
GNPIMEIPSG PVIFKHITVK GFWGSKVSRE MPAEKKTQLF GELIARILDG TLTLPVDSTF
DAADIVSAVR ASSEPGRAGK VLIRF

> aaRXA01622 (1-603, translated) 201 residues
MSDFYADRLF NAMERNEVAP GMLLVAAPDM ASEDFERSIV LIIEHSPATT FGVNISSRSD
VAVANVLPEW VDLTSKPQAL YIGGPLSQQA VVGLGVTKPG VDIENSTSFN KLANRLVHVD
LRSAPEDVAD DLEGMRFFAG YAEWAPGQLN EEIEQGDWFV TPALPSDIIA PGRVDIWGDV
MRRQAMPLPL YSTFPSDPSD N

> aaRXA01623 (1-711, translated) 237 residues
MSSENLKEIR GGIGETLTVG LGLIPLGLAF GLLMVQTGFA WWWTPIFSFV IYAGSMEFLA
IGMVTAGIGP FSAAVAGFMV NFRHIFYGLT FPRHRIKSGA GRAYSTYALT DESYAIVSAR
PPGDISGTRV LTVQILCQAL WVIPGIIGAL VGQVLPDDLK GMDFALTALF VVLAWEAFKN
NKDYSLPLFA VVLALVSGFV APEQMLVIAL TTYFLILLLR VRFPNLDKKL EIRTSHE

> aaRXA01624 (1-345, translated) 115 residues
MSEFGLPEGV TLLNVAAVLI PIAIITLLLR IFPFAAMKRV NSNQLMGVLG RTMPVGVMVV
LVIYTLFGQV SAPGGVGASL IAVAFTALLH WLKGSAGLSI VGGTLAYMFL VNVVF

> aaRXA01627 (1-495, translated) 165 residues

RTYSPSLKDY NSDEPSLLGP AEDPNMYQEF EVSYEQLGIK PEGRTLIGDS FSADFLTSNE
IGIVDEVPSG TIAFTNWKDV TEGRHSWYVR SEDPFGGVEI SPVQSFIAGE EAGGNAPGTG
SSNGGSSHGL WGALAEFFAG AAALAGAAIA FVPGIWDYVT NAFKR

> aaRXA01628 (1-1014, translated) 338 residues
LVLVGCSNTA ESTTTDTAGS TETSSQISPT TPVSTTEAAP PEDPSANALE EYAQILANPS
IYPLTEISQF VPTGTYAYTL VEATSDSIPE LLLRADSHEF APILVFTYDE NTQSATQAGG
VLIDGVASAG GSRVKVRASN SGAGIYQLNW YSIQPVGESS LYGIQGNSLT QIADPEDFMV
RELLPDHHEI TWVDSNDPSG LSTVQTGGAN IQQAAPTPVQ QPASNLHYFS GVVTMQTAGE
LMRGERTPNG EPATDLYLVL VLDSPIEITA RNAATDPQTR TISEVSLGRY IPADGDNDWI
GYLDTHVEIT ATTDQVWFPT DTGLPLGMLR LADYKSIS

> aaRXA01630 (1-1077, translated) 359 residues
MSDQKIVVGL LGITHPHASA RVRALREIDG VEVVAAADTD SRLQYFTDKY DVEPREIDDV
LNDDRINAIM VHSKSKDMVP HAKRALAAGK SVVVEKPGGG TVADLEELLA LKEAADPQRI
VQVGYNVRLS ESVQRLKELL DAGLIGEVVS VQARGAAKVG EHITEHLNQP ADMGGVLWIL
GCHMLDALVE VFGAPESVNA RVHKTAKLSD DTSREDSASA LLYYPDFSVS FSFDGHDDLE
WFESSRLTVY GTKGMIEAGI LPQTLRVYLN ESRQGWPQGW TEWTQSYFTP PFARTESNKF
SELPELENIS NFRTEMQGWV NSIRTGSRNV APVEDALTVA RIVSACYESD NNQGISVNI

> aaRXA01634 (1-552, translated) 184 residues
MAVGQETDLL NAMETLAGVP SDLVVTEILP DTTSYDNFEF FEVHNTGSAP VTIGEGEYTF
AYSFDDSADT SRDKALDLGG EVTVDAGETI VVWIEYSSST VDTAAFSEQD FRDFYGMDSS
ARIFRATGQA GLANGGDRGI RVLYNGEVSG WSHYPSDSAA VQKGIDFALP KVGEQASIAS
AHQN

> aaRXA01635 (1-741, translated) 247 residues
LIPGGLDTPE EPEAPEDSLF EGRTPPRDAS TRLILTELMV NSTNMGSSDG FEYVEITNTT
AEPIDFSDYT LNYLYPQDEF TNTNEAVWAA EPGDVIIQPG KSLVFWIKNG PNDEATAADF
NAEYGTNLEA GKDLVEISSG GMANGTARGM QIQTNTGHIV NRGFYNMAGA SDVKANEGLH
FAVDESDLLK QTLVGSGAPT PGTVYTSQIP NPLSAVIADS SVPLITDNTA TSINPAEPFT
FAFKYHR

> aaRXA01636 (1-573, translated) 191 residues
VRTATLHVTS SAGEAATTIN LTEDDGSFNW ALPAADLTGK SWFEYTVTAT DGFNSVTTEP
VRVTVDGANT DPLRLNLEEN QWVSGTTDVI GASDVFGDKL ELLIDDAPAV TNSSLSAAPT
FAMEVTQTDV FFRNGILAGG EELRIFDQGT YANTETISTP VPLYHINEDG TLTVSVYAGT
KAAPEIDLNE N

> aaRXA01638 (1-390, translated) 130 residues
VLVTEDLLIE APFGFEMRSD EQSRYLEGPD PNLRIHVGVD PLHGADAALV AEELRRLITE
DPSLEEIPAG EWGEKTTIDY RETPGDGSHV LWVTWFDTDR QLNVGCHSKA AETLVHKAQC
RNVIEHLTLK

> aaRXA01639 (1-438, translated) 146 residues
MSTQTITITV LETATIFDGP ETIYRYDLAA EGILDGWAHS AVLDQVKQIA GENWPTVEIV
VDGTDNVVNA LTSMFASKGV TCGGVGVEAP PVAEEPPKIK RPTSGKQVRQ FYGIKPLHLL
LVSILVGSIA GIWGFRVSLG QWTHGR

> aaRXA01641 (1-1371, translated) 457 residues
LAIDNALRVS IRIDLTVGDA PAAVADVALP AGSSLADILD EILELTDAPR ISRPWVAHTA
AGSPIDCGIP LAETQVEQGS VVVLSPERDL EAPVLRDVAE ALVEFSSTNR AGHLVELMTF
AGLIGAAVLM TSPAASGIIV PGRMGIFVAI CALLLLWLPP AHTPILRNVL PITLILGAGG
AVSVLVAGTS GTSPGALTWT IFAGACTILA SSLLVHVVYR PAILLVATLS TLGLGLLVLA
ATTTLWKLKA TEDFSGPAAI TVTASTITMC FAPKIAASLA GLRVPSLPTA GEDLSVSDLT
MTDPEKRIKT TKTLFDAQIL GLGVLSGPLA LLSVTPGTWT TTVFSLCIAV ASLLHANRHQ
APIPTWTLMG LSALGFISMA LSASRSGSLI ALIGSVVIIA VLVSVALWIS TVPTLEPTTI
VWLERLESLC LAASLPLALH LLDVFGMLRG LDIGFGG

> aaRXA01642 (1-1242, translated) 414 residues
MRRLIAVSLA ALFMLASTPA TRAQEVEALA CPEVAIADPS SAVLDEHLSQ SLSQAHQLAT

GAGVMVAVID TGVSLHPRLP HLIPGGDFVG AHQSPDVPGE LIDCDGHGTI VAGIIASQGN
PGTGWPYDGS SDPYIGVAPD SGIISIKQTS SYVRTREDSN VGTLSTLAES IHRALDSGAH
VINISVVSCL PQSPDEAASF QPLTDALNRA ELQGVIVVAA AGNLGQDCPV GSTVYPAHSD
TVLSVSARFD SHTLAEYSMP GNQQILSAPS HIQAGLSPRG DGFASHMITT AGESPFEGTS
FAAPVVSATA ALLRQHFPFA TPYEIRARIF NSIDPARGAI DPYLALTQEI YPTTPLVHEI
ALSVPTPPDD SPRERGILVT AIIVGLLAVL AVLMGLRRIH HHSAFQKASS SVIT

> aaRXA01643 (1-426, translated) 142 residues
MGTMREMVSD RIDRLQEAHA RSKQKKFGFL VRPGTLILGW LVTIIGLITI PLPGQGWLTT
FIGVGILSLE LKWAKNLLAW GVHQYDRFFT WYGKKSFRFR MAMLALMILL IWVVFIVTFW
LMWHAGTIPW ADEFFTWLGL SR

> aaRXA01645 (1-606, translated) 202 residues
VVRKLWPRDL LRSSFYWKII GWDRKYSIAD RLEERKGRPA RERVVQDVEV TIDKLPEFLK
WFFESSDIEP LWLCPIKLRE VPGSSVGAGE ILSSAEAIDS GAAEHPWPLY PLKKDVLWVN
IGFWSSVPVD LMGSDAPEGA FNREIERVMA ELGGHKSLYS EAFYTREDFE KLYGGTIPAL
LKKQWDPHSR FPGLYEKTVK GA

> aaRXA01646 (1-819, translated) 273 residues
MSGLVDPDST FLKTIGKLSN SLSIGRGVDQ KEVIPKGWNA HWEAITKLKR SFDAIPAGER
VRLAKKTSNL FRGRSDAGHG LDVAALGGVI AIDPVNATAD VQGMCTYEDL VDATLSYGLM
PLVVPQLKTI TLGGAVTGMG VESTSFRNGL PHESVLEMDI FTGTGEIVTC SPTENVDLYR
GFPNSYGSLG YAVRLKIELE PVQDYVQLRH VRFNDLESLT KAIEEVASSL EFDNQPVDYL
DGVVFSPTEA YLVLGTQTSQ PGPTSDYTRD LSY

> aaRXA01647 (1-888, translated) 296 residues
MPRGVPVGVP DAPGLFSSTE EPEQDWFVCQ DVGTGDLHIT VPRGGLGPTL IAEGNGWLGA
SKSETGEVTW NLITADGRRE LPAWGSEHGR IMRRHLGISE DTPRVYLTTE LLNAIPEHDA
VRFPAPLPEL VDASTRNWLR LDGALAEITP LQRGLLIDAG SGVFPDPTAL LGVHEETANT
LTLPEQTVSW QDLDGGFACA DGEGQIGFLE TLESGVALSG DSRAKSFSTN AGGAVGVDSG
FGYYVVSDFG LMHPVSTGES MVALGITDVQ VVPWSVLRLL PQGSELAKET ALAPTY

> aaRXA01656 (1-897, translated) 299 residues
MTETQETYQA TTRVKRGLAD MLKGGVIMDV VTPEQARIAE DAGASAVMAL ERVPADIRSQ
GGVARMSDPD LIEGIVNAVS IPVMAKARIG HFVEAQVLEA LGVDFIDESE VLSPADYTHH
INKWKFDVPF VCGATNLGEA LRRITEGAAM IRSKGEAGTG DVSEAVRHLR TIRGDINRLR
SLDEDELFVA AKEFQAPYDL VREVASTGKL PVVTFVAGGV ATPADAALVR QMGAEGVFVG
SGIFKSGNPA ARAAAIVKAA TLFDDPSVIA DVSRGLGEAM VGINVSDVPA PHRLAERGW

> aaRXA01658 (1-1485, translated) 495 residues
DPQILSPTFT QQQQLRNFYG FPDQLAMDRF EVDGKLRDFV VAARELDPNA LQQNQQDWIN
RHTVYTHGNG FIAAQANQVD EVARDVGSTR GGYPVYTVSD LQSNARAAES EDAEELGIKV
DEPRVYYGPL IASATDGADY AIVGDTGDGP VEYDTDTSSY TYEGAGGVDI GNMVNRAMFA
LRYQEMNMLL SDRVGSESKI LFERDPRSRV EKVAPWLTTD SKTYPTVIDG RIKWIVDGYT
TLDSLPYSTR TSLTEATQDA VMPDGTPQPL ITDRVGYIRN SVKAVVDAYD GTVELYEFDT
EDPVLKAWRG VFPDTVKDGS EISDELRAHL RYPEDLFKVQ RDMLAKYNVD DSGTFFTNDA
FWSVPGDPTA AEGRQELKQP PYYVVAADPE TGESSFQLIT PFRGLQREYL SAHMSASSDP
VTYGEITVRV LPTDSVTQGP KQAQDAMMSS DQVAQDQTLW RGSNDLHNGN LLTLPVGGGE
ILYVEPIYSQ RKDQA

> aaRXA01659 (1-486, translated) 162 residues
PEAVTAVWME SDWVLAETIK GSTPSDWEEI LRPLALLTDA SFTLPPRSTR AQTLDLKHLE
PSRLKPEQPE KPAFTPNASE EDLSQPLVIR PEEPLQMPVR GVQESRGVVE PRSLGADDVE
SIAEGDPERP SDLYGTRVLR DLNGQSSIFQ DSTDADEPPK KW

> aaRXA01663 (1-435, translated) 145 residues
MEISVLIIAA LILVAGIVLW RADSSKQAAK KAESPVGSVA PAPVLVEEEP DPEFEPELDP
EPEAQPEPEL EVAPRFAPEP VQDLEPDQAE DIYFDDSPEL DADVENALAE LTEVEDYPEE
PVQSEQPQAP ATAEVAADEE QRGVD

> aaRXA01665 (1-720, translated) 240 residues

VKIDELIALA AEQPTRISRR SGVSRSTLKR VGDGTSEPTL STLREVALAL GLDIKVAAHH
ACDPFAAAAA RTLIDASVPE NPHNQEILAW LHRFERWNIN DPLTLVSEAG TLQGITHRQD
AQFVKLNPRG IAELPELFQQ HKTKWALSGA AAATVIMGQI VLGNSIVWHE PAHDLDVSAL
GTIVDVAEDA DLILLPATVT ELVGSYTQDR LNFVAPVQLV IDLHSLHMFE EADYLTSGWR

> aaRXA01669 (1-732, translated) 244 residues
HNLSDALTAI PLWIAFILSR RAATQKYTYG FNRAEDLAGL FIVAMIALSA IVAAWQAIDR
MINPRPMENI EWVIAAGVIG FLGNEAVAMY RIRVGKRIGS AALVADGVHA RTDGFTSLAV
VAGGVGVFLG FPLADPIIGL IISAMIATLL VGTIRSVGRR LMDGIEPELV EKATHAIWHV
KEIESIDRLR LRWVGHRLHG DATVSTSTSS LSEATAIALE AELSVKQHLP NVDEMTVTIT
PSKP

> aaRXA01671 (1-615, translated) 205 residues
MNHVVNFASH LEDAALKQAE ATATMPFIYP HVALMPDAHF GLGSSVGTVF GTKGAIIPAA
VGVDIGCGMI GVCTNYTASD LEGRDLVTLR DYIERVIPLS PGNYNSTTLK ETAKVKVAEL
EELAERDGVD LSHSPTWKRQ LGSLGGGNHF IELCLDELDR VWMFLHSGSR GVGNKIAHKH
IKNAQAQCKN EELPDKDLAY LDRGD

> aaRXA01672 (1-309, translated) 103 residues
SPLATFRVAL AMSIIGLVAW IICVTVLYFG LNVAGVWQNF NDVIGGVGAE QTITFGLVLS
ISALLGAIGA ITVAVLAPLC AIIYNSIVDL FGGLQIQLQE EVD

> aaRXA01673 (1-1035, translated) 345 residues
MSTNLLESTP PFTQLRTGVL QKYTPGLLLC SIAVLIAMIV NHFFSGVSPL IVAIILGIIL
TNLIQLPAST SPGITLASKK LLRLGIVFLG LQLVFSDILS LGFPMLAVIV CIVAGGIFGT
ILMGHLLRMK PTQVLLIACG FSICGAAAVA GVEGVTDSEE EEVVTAVALV VIFGTLMIPF
IPFATKVLGL SPEIGGMWAG GSIHEIAQVV AAGGVIGGGA LGVAVVVKLA RVLLLAPIAA
ILSFRQRRQG YTSPDGKRPP VVPLFILGFL AMVVLRSTVA LPDEVIAAGG FLQTALLSAA
MFGLGCGVKI QNLIHVGVKP FILAFGSTTL VTSIALAGTL LTHLG

> aaRXA01675 (1-411, translated) 137 residues
MNEIPEWLTL VSVEAGKRLG RPGPLVFPPE LVTLAVEGIE LIELEPSWTS DLPLPEFGFL
AADMVDFYDD YEFSEWIPGA WPLALDGGGG FFCLDLRAAN ADGEIPVVWV HASNLGWGDD
EAVRVAASLA DLLSPSK

> aaRXA01676 (1-756, translated) 252 residues
MILHGVVFYA GLLVLLVPLG LGAGILGELF ITQRQTIIVV SSIVLIILGF VQIFGGGFDF
GKALPGLDRL QSKATVTSGL GKSFLLGMTS SIAGFCSGPI LGAVLTLAAT SGNSITSALI
LSAYGAGMVL PLMAIAALWA KLGQRGQQML RGREFTFLGR QWHIVSVISG ALIIAVGILF
WSTNGLVSMP ELVPMDTQIW LQEATFSLGS PLFDIALIIV AAGLFLYFWN KRQKRKEEAQ
RPKESGWVIN PR

> aaRXA01677 (1-744, translated) 248 residues
VNQQSKKWLV PTLVVIIAVL LIAVVLLMYR GNASDTAEGV SAAATSDSAA ASTAASGSAS
GAADSDLTSV EARDPSDPVA VGDVDAPVGL VVFSDYQCPF CAKWSDETLP QMMKHVEDGN
LRIEWREVNI FGEPSERGAR AAYAAGLQDA YLEYHNALFA NGEKPSEDLL SEEGLIKLAG
DLGLDESKFT ADFQSPETAV AIAQHQQLGI DLGAYSTPAF LLGGQPIMGA QPASVFEAAF
EQALAAKE

> aaRXA01681 (1-633, translated) 211 residues
VEVLLLIAIV VGGGVFVASK MGSNNNKKQE EAKFADAQAD ARRWIERLGS QVLTIAGTDA
ASTQAIADAS ERYTAASSQI SSATTPRQAE LARESALEGL HYMNAAREIM GMTAGPELPP
LEGQRNAGRV TEKRTIEQEG RQITASPVAT DETPNYYPGG NVAGRPVPAG WYSEPWWASA
LRSGLWTAGS VMMFSAMFNG MAGVGYSAAD L

> aaRXA01685 (1-579, translated) 193 residues
MSFAIGITVH AGLGTTTISS LPVVWTAASG LSLGWTTIYF NGFMILCQII VLRSQFKPQM
LVQILWAFLF GFLCDLSLQL TTWAQTDNYF VAWIWVIVST ILMSIGVFIQ VLPNITFIAG
EGIVSALVKK FPNVEFGTMK QIVDWTFVSV AAILSWITMG GLIGVREGTV FAAFFIGFFV
RQWRKLYLRS IGH

> aaRXA01686 (1-441, translated) 147 residues
MTSLRDLLVS TNADAAIADM SAFIEETVGK QSGISGIALK GAMGAATKID SDIVAKGSRR
LLPEIADSLD GLWQEYQNGG TAADFGAHLE ANSSTALDAI LSVADKNAES INVPGLGKVY
KGVRGKAAKV IEQELPAIGQ LIEKNAQ

> aaRXA01693 (1-1422, translated) 474 residues
MNTAPFKLEA DFASALPTMA APWQGEEAPN PELVILNDDL AYSLGLDPTW LRTPEGVQFL
LGLNPEPLTK AVAQAYSGHQ FGQFVASLGD GRALLLGEAR SADGVLHDIH LKGSGRTQFS
RGADGRAVLG PVLREYIISE AMHALGVPTT RSLAVISTGR KIQRGSVAPG AVLVRVATSL
IRVGSFQYSN ISGGIELSQH LANYTITRHF PSLVAELSAP TPATYVSLFK AILQRQADTV
GKWTRLGFVH GALNTDNTLI SGETVDYGPC AFMERYRGDA KFSSIDTYGR YKFENQPMIL
GWNMARLVET LLPLLGATPD EGMTAAQEAL VEFDDLCEQA IRKEFATALG LDESDTGTVE
QFRELLYLHN PDITTLLRAL TDNTAPPSGF EAFVHDWKTQ DPDIEAMRAV NPLFIPRNHL
VEAALADAVE GNLEKFHELL AAVTNPFDPT AGPDELRLPS EEGFEEDYMT FCGT

> aaRXA01694 (1-900, translated) 300 residues
MQKITPNIWC QGTADEAAEF YVNAFSEFPG GAEVLTTVKY PEAGLLDFQE PFAGKTLTVE
LAISGFKIIL INAGEEFTPN PSISFMVNFD AVRDENAKEH LDAVWEKLHE GGSTLMPVDT
YPFSEYYGWV QDKYGVSWQL MLSRPEEKPG PAVIPTLLFG GAAQNQAGPA QENYVEVFPN
SQLGDRAPYG QQTGPATPEA LMFSQFQLDG QWIFAMDSGV EQDFTFSEGV SLMYEAHGQE
ELDAIWNALS AVPEAEACGW LKDKFGVSWQ IVPDNMEELM AKPGAYEKLL AMKKINIAEF

> aaRXA01696 (1-597, translated) 199 residues
HSDPVLMVEA YRQLAEQSDY PLHLGVTEAG PKFMGTIKSS VAFGALLSQG IGDTIRVSLS
ADPVEEIKVG DQILQSLNLR PRKLEIVSCP SCGRAQVDVY SLAEEVTEAL DGMEVPLRVA
VMGCVVNGPG EARDADLGVA SGNGKGQIFV KGEVIKTVPE SQIVETLIEE AMRIAEEMDP
EVLAAASASG MKAEVKVTK

> aaRXA01697 (1-726, translated) 242 residues
MFQGLKELTA AKGRTLLITV TVGLIAVLVT FLSALTAGLG HQSVSALKYL AGDNELILAD
SGSTTLSAST LSDQAVAQLE DEGAQMLWQV RDRVADTPTM LLNSPDLAPG EVSLPAELAD
SELATAHDVV DSSNDLYLDH LPVVLMNTSD LASLAQVRGV TGPAGAFASD VALPSDTVAL
SGSERWNASA SYQGEQMSLN LMIVMLYVIS ALVLGAFFTV WTIQRLRGIA ISSALGAARR
VL

> aaRXA01701 (1-333, translated) 111 residues
MLSHEEIVAI AEDLLSKRYG GVQTLSDVEQ LNGSGTSAVL RARVANSPFL QQRSVVLKYV
PSTGDVFDDS ALVREIVSYQ FTTSLSEDVR PGPVILAYDI DKRILVISDS G

> aaRXA01703 (1-471, translated) 157 residues
LKYFAHIHAV VQAVSRKMTN FHGVIDWDTG DGDGGLFKGI LVRYLADVAI RLPDDSPTNR
ETKKIAARLV LESAESVWNH RLEVDGLPVF ATDWTTDARL PQNFGLSSSS LSDLVSVVRV
DERDLSVQLS GWMLMEAAAK VAEELENNGN SYTGRSR

> aaRXA01709 (1-330, translated) 110 residues
MRSGVDMILN ETGGEKMLAQ ADLVITGEGR IDAQTLSGKA PTGIAKRARA KGIPVLAVCG
QSLLGPAISN ELFEDIYSFT DFESDINECI RNPLPILEGI GFNIAKHHLS

> aaRXA01711 (1-1158, translated) 386 residues
MLLMAHRFFV LAINGAVTDD FTTVYSALRR FVEGIPVYNE VYHFVDPHYL YNPGATLLLA
PLGYITHFTL ARWMFIAVNL LAIVLAFGLL TRLSGWALRS MVWPIAIALA MLTETVQNTL
IFSNINGILL LMLAIFLWCV VHKKSWLGGL VIGLAILIKP MFLPLLFLPL VKKQWGSLIL
GILTPVIFNA VAWFLVPGAS EYVTRTMPYL GETRDFANSS LPGLAIYFGM PTWMEITWFL
IFGAMVGLAV LALLRFRNTE PYFWAATTTG VLLTGVFFLS SLGQMYYSMM IFPMIFTLLG
SRSVFHNWVA WVAAYFLLSP DTFTSQRLPD VARWMEFFSA TVGWGLLIVV TFVSALIWFI
GDIRAKGTPS SPITTDPTHD HLERTA

> aaRXA01714 (1-615, translated) 205 residues
VIDSEATSQH KTSATPAEST PAEFSEAVES MHRARLRPEL TLGTIRPPQR LAPFSHAIGL
EVGNQEESDD VSTNSEGDSF GRLILLHDPG AEETWEGAMR LVAYIQADMD HAVASDPLLP
EVAWQWLNEG LEQAGAGFTN LGGTVTSTTS VRFGEIGGPP SAYQVEMRAS WTATGTDLTA

HVEAFAAVLA SVAGLPPEGV TELRR

> aaRXA01715 (1-696, translated) 232 residues
VSELDIKQLN KLQRYSQWAV FRAIPGALDD DRTEVTDQAA KFFADLEAEG KVTVRGIYNA
SGLRADADYM IWWHAEEFED IQKAFADFRR TTILGQVSEV FWIGNALHRP SEFNKAHLPS
FIMGEEAKDW ITVYPFVRSY DWYIMEPLKR SRILREHGQA AVEFPDVRAN TVPAFALGDY
EWVLAFEADE LHRIVDLMHK MRYTEARLHV REELPFISGQ RVDIADLIKV LP

> aaRXA01729 (1-519, translated) 173 residues
VKLRTIPALL AVALLAGCSG ESADSQAVSA EETMEVTTTS TPVFEAKEVS PITVPSGDIR
VEDPGLNVEF IFRGTRYGTN GGSIIHIAVK NLNDVALPAD AIDPPTLDIE DYNGNKTNIE
TLSGDDNIPL DLPLGAGATT NLQYAFNTSN GSLSNAKFQI GNVIYSGNLN SLA

> aaRXA01731 (1-699, translated) 233 residues
MNASSISSRF KDLFVTPSIV FDFDGTLAIG HGPVLAYALC VAPEGSKDFL ERVRRELRRY
DDGQSIYRDG YDIVAKLASE LGIDDGTMSV AYGESRKLLG SDLAPVEHVR GIKDILSSLK
GHARLVLATN APENGVHDLL RQWGVADLFD QLHFVVGKPA GLISIISDLQ LDGPVLAVGD
IYEFDLSPAA QLGADTALVG ATATISEAKV SMRGDSIADL PLLAWVCSRV SSS

> aaRXA01734 (1-534, translated) 178 residues
MTDPIEQAFE RIRAEAMRRN GSVPDLNKND AFRRPPAPKG GVEKRKKGRA SGLDGRQKRY
VRGAESLGSV LNKEIQRRGW GKDIAGGWVT SNWEELVGAK IAQHTRVEMI KDKKLFITCD
STAWATNLRM MQRQILQVIA EKVGPNIITE LRIFGPQAPS WRKGPLHVKG RGPRDTYG

> aaRXA01738 (1-714, translated) 238 residues
MRILPIGPHD EIAVNGSIVL LSEHDGDIVS VGPDLGTVRV TLEEIESLGT PTAPRDLGSR
EVDACVSLLR NRELVRFDPH DGSELTYREH SVAYGASGKP LFPRLDPAVI GIVELRGEDR
LLLGMNAQKR QRYSLIAGYV SHGESLEDAF TREVFEEAAR RVSEISYVSS QPWPISGSLM
LGMKGFTEDE LPQGETDGEL AETIWASPLD IIDRKIPIAP PGSIAYDMIN AWARDKQN

> aaRXA01741 (1-798, translated) 266 residues
MTHIALANSA QVLIRPDSAI QFGIDATRAG VLNIDPSLSS RVVPVLRNLR TARPIVDVIA
DLTTAGLAPT AASSLLEDLL EFGVVRESAA AQVLLFGDGS LVDVTSFLLE TSGFVPRPQI
IDESPREFFE LPSSHILVLN KLAHSQRLSP LLHKYAPTYL CAAIVDNRGI IGPGRRSRSG
PCLMCVDLHR CDIDPHWLSI INQQPNGPTF PDPVTEMATA ARLVAWVTAD TWLPGVVEEV
NPHDRTNSVR TLPVHPKCPM CWSLGS

> aaRXA01742 (1-504, translated) 168 residues
MQEKPEMPAI EVIRSAKRTK TVQARIVDGQ IQVRIPARMS KAEEEKAVGE IVAKLKRRTQ
SAVSSDADLI ERAHKLNKTV LEGRARVESI RWVSNQKGRW GSCTVATAEI RISDRLKHVP
DYVLDAVLVH ELTHTFIAGH SAEFWEWADK TPLAERAKGY LEAYQRWG

> aaRXA01748 (1-780, translated) 260 residues
MADAKKQADK AAKKQVRAAK KAQRKETRSQ MWQVFNMQRK QDKALIPLLL LAILGIPLVL
FLIGLIWGGQ WWMLPIGIAA GVVAAMFIFT RRVERDVYKR AEGQQGAAGW AVENLRSGVG
MTWRTKTAVA VTTQMDAVHR VIGLCGVVLV GEGSPHRLKP MLAQQKKRLN RVAPGVPVYE
IITGNGEGQT PIAKLQRELV KLPRNYKKND VAALAARIEA MDNVGNAPGG SLPKGPLPKG
ASMSGMNRRA RRQAERKGEA

> aaRXA01749 (1-1617, translated) 539 residues
VSFLVENQLL ALVVIMTVGL LLGRIKIFGF RLGVAAVLFV GLALSTIEPD ISVPSLIYVV
GLSLFVYTIG LEAGPGFFTS MKTTGLRNNA LTLGAIIATT ALAWALITVL NIDAASGAGM
LTGALTNTPA MAAVVDALPS LIDDTGQLHL IAELPVVAYS LAYPLGVLIV ILSIAIFSSV
FKVDHNKEAE EAGVAVQELK GRRIRVTVAD LPALENIPEL LNLHVIVSRV ERDGEQFIPL
YGEHARIGDV LTVVGADEEL NRAEKAIGEL IDGDPYSNVE LDYRRIFVSN TAVVGTPLSK
LQPLFKDMLI TRIRRGDTDL VASSDMTLQL GDRVRVVAPA EKLREATQLL GDSYKKLSDF
NLLPLAAGLM IGVLVGMVEF PLPGGSSLKL GNAGGPLVVA LLLGMINRTG KFVWQIPYGA
NLALRQLGIT LFLAAIGTSA GAGFRSAISD PQSLTIIGFG ALLTLFISIT VLFVGHKLMK
IPFGETAGIL AGTQTHPAVL SYVSDASRNE LPAMGYTSVY PLAMIAKILA AQTLLFLLI

> aaRXA01750 (1-1641, translated) 547 residues

MCINDPKGEL LKKNYVRMSK RGFQVVQFNL INNLKTDIYN PLGLAAEAAR EGNGMKCATY
VENIAEVFFP VDGADDPVWP NAANNAFKRA AYGLIDFYLE EEREMRKQAA AENWDAKVLD
TRIDQMWGKV TLYNCYQLFV QLSAKKLKNP VERLNERARA GEFGNLETDE NAAMMFQDAV
TEAEENEMFL WEGEKEKDML TLFFSATDGL PKSSVRTLVG NADKALKAMG GAEKMMASVY
GIAITAMSFF TDPTISTLTS GTLSQNVDLA GLSFPRRMGV RFAAPYVKRY NLVGSQVKWD
AYSDAKFTKP LGKNFVHDDT LSVEGWARFY IKDSFPSNTA YLRLRILNGT SGTLIKTLYF
KFTKGYQTNL KGRAFITDPV TDEKIIKNGL LIELVKNDAG DFVPGHVQFK TKKLNLDQLT
QEQINMPGHD MIKQVDAMVD AVSALNVRYS EKPKAVFFVT PPHLMKYAKL ILILIKQLVD
LNFDSSYMTR ENQKPDYKTR FMLDELGNLQ SEGHGIAGFE TMLSIGLGQE QQFSATSCVA
KNYALAA

> aaRXA01752 (1-552, translated) 184 residues
MMEQDLSYRE ILPLNASEEK KKAALIDAIE GLRVRDPLLS ASIAFTRGQK VAFIAVVVGF
ILMLIFARQA ALIGLSATCT FMYLITLLDR FIMFSRGIRA ESIIQVSDED ALAFPEDKLK
TYTVLVPAYG EPEVIAQLLA SMHAFDYPKH LLQVLLMLEE DDLPTIAAAE AAGVDQVATI
IKVP

> aaRXA01753 (1-1539, translated) 513 residues
MSNPSLEPLE PIELSDGTEI EVSDVDPEPQ AGNAQMEVPS LRTYVFRGII AIACLIIGFY
ESFVLMWQNL RIGVANYSLL VVLMAIVLFI GLDRKRARAL NIHDREVDYI IGGIVVLIAI
TIKSQLLPRF VDWETLLRLD MFALLFFAFG ISGLVFGMRS TFSFAPGWIL LFGYNAVAHL
IISVIFGGGF WGPVMANIIG LSLAVLVSSN RDLVQATYLA LMTVLFGVII AIIVWALTDG
SKFLTLVPAV LATITVVLVS SRWRLGQWKI RRRQPTVEKA GPALIAVVVA TALLAWIPTP
YVERVNNLPG LQMLAKPAPG VIAPIGWHID DVQYYNWASR YFGPGSSLLR QTMTADHYNE
AWDPDGLDRT VVVDTLQSAE RFQQRAFGDE TLYSTLRGRK SDTVQVDLGY GVDGRAYTVL
DETDFLTYTK LVFEWQTTNN TVEKISVIAV DDHRAEAKFP ELAPSVTRMF IQVATILFRG
NDVTIDTNTQ LKDLDLVSQV GRQIVAEQQV GRS

> aaRXA01754 (1-1941, translated) 647 residues
VKIKSVFLST ALSASLLLGI TPPVLGATIN PSLPLSALSS SDDIAVPNFA KELPLAFDVP
AGTVPQSLSG TLQIPAEFSG GVVEFYDGDR LFHTLRLEVN DSRAHIEVPL QSVPVEDGRA
TFWLRAMLDP VNNQWCYEEQ EVRFLDGNVT FEGATINPAV VADYFPSVLR ALTIYVPENP
SEAVQEATLE VATSLDSVYR RSGLDVNVET LPTGTDAPPT RPQDFERQIV LVDEATESNT
QKTELVNPGQ DNAFLRLNGN ADELYDQARL LTDATLPLAV DTEVTASGFG DVPNLSTDVA
TLQELGITQL TSESVARTSV TLGIERSRLR TYSQSMDLHI TGTYTPLPPQ NAGQITFSIG
DTVLDSLTTD DTGIIDREFN VPGDLVNRYT AIVVEFTSTG DVNCGVTQPV GLNIDSDSLV
TSQHSDVPVL NGFRSLPQSF QPRVDVAFAD PSVQELSRAV SVVLGIQSMS SQRIRPHLVN
WDEAVASERP TIFIDAAGAK TDQVPSYLAQ QGQTLEITSK NDQNADGEQL TRSLQTNAAL
VVGSIQAVWD ADKKRTVIVA SSQDNPPDLD ALISWMGEDR ERWSDLNGDL IVKVRDREPV
QLTTVEAPDQ PGRSATAFIA IGVSLVVIAL IVAAVVSVSR RSQKGYK

> aaRXA01760 (1-282, translated) 94 residues
MAAFLEITLK INDEGRPSAA GVYQEYKQPF LSSIAGATSK ELLIREEDVQ VLHGCDTVAN
AEDYLVSELF TADVVGGLAP LLQADPEIRI YQVA

> aaRXA01761 (1-1518, translated) 506 residues
ADANADFVDG VVDGAGRASF SNAAYSSDGT TLDGEGASVD AQGNPLHADG TPMSAAEAEM
KMAGLSSSGT MMEKSGVKSS GITTAADVMD DQSLASSVTE SGLSKIPDTY GADVSGAAGT
VGTTGADYSA TDSSAGLNMS EAALQSGTPM GALAGGSVSS SDQAMNDAAL QIAASQGLAP
AGSIAGMEQL SAQATEAPAG KAGKQLGDLS GSALNTQLAS MGQQVGDSVN SAYAAGGMGG
VDVAGKVTEA AQHLSQVPGQ IQNAVTNADA GSSGASFGQM AQGAAGIAGV AGVIGAAGAA
SSAAQGAGTV QGAMGNAAAG AGMINNAVSG GATGSTGAAH VVNASHGPVA PGQAHYQESG
HAQAFVQNNQ ANTAHTANTR APSSAQIMGA NVAGSLASQA VRGIGQPGQM GANVRDAMGG
SGRSGGRGGA TQGGRGAQRS GVSAKNGIRA QRGQKPSVTG QAMNAAMRSA AVSGRMANMD
GNSVGGTEAD PQQGSGVTEK GDKGVK

> aaRXA01765 (1-942, translated) 314 residues
MSNNVVKYEC AVDADNIVAV DMHVHLEVDS CGHKSMPADI MAASSKYFKT AERTPSADAI
ADIYREHKMA AVVFTIDART QMGHLPNSID DLVASCARNN DVLIPFGSVD PRTGEDALVE
ARRQVEELGV RGFKFHPSVQ GFDPSAPEFY PLWELLESFG LPCVFHTGQN GMGAGLPGGR
GIKLRFSNPM LLDDVAADFP NLTIIMAHPS VPWQDEANSI ATHKANVFID LSGWSPKYFP

ESLVRQSNNV LSKKVLFGTD FPLITPEKWL AAFANLPLKD EVRPGILKDN AVKVLGLAAS
TERGSQAEKV VQHA

> aaRXA01767 (1-336, translated) 112 residues
MIDHKLWFNT VTNNASVREA AGKCDIPIRT LNEQLNRRIL PEKTVIALAR AYDLSPVDAL
VRTGHLTEEE AGSREEDASP DSADDYPTWA LNSHLDYGIL GAFGDIAEEV NS

> aaRXA01768 (1-378, translated) 126 residues
MSESTSSANS TTILNDTFNP KPGVPYARVD NLEFATRDEF RAWATAEMEA GNVISATIAN
APREDRIKSF VMDLVRDGID DAAEEIVSRI DSGDFTMKEA LTAIAASIND LDADDVVSDI
VENHFN

> aaRXA01769 (1-429, translated) 143 residues
LGRAPHSLFF PIGFYYTPMT SITTTDTPLY TALPHTRISD AELLTPTTTV HEILVYGPAE
CPGCTATLDF FARKNMPATK VTVAAGDVAH TYITQDLGYL QAPIVTVRIS SSASNHDNEH
NTQILHWSGV NRYLMQALSR THF

> aaRXA01770 (1-3765, translated) 1255 residues
MPIIIDNLNS DDDSTIGTAT EYNPDTDADL LDAINADADL DGDATISTNA TEEGVDAAAE
KPKKKRKAPA LKPKGLTAKF FHRDLTGVGG RTGRLNKNVH PTNPDLSYQP VSDVYTPQSA
DHKGIKTRYI LTHPTPAVVL SESISNAFHV STLRRNNNVN NSDSELAAWP YLYQLDIPQL
DQMINVADIC DYHFHGYNLW VDFTPQTIAL RSGKTVLDDG TTASDNTTHV YYRVTVHVIA
GQDHGSTLLD DQGNQVLDRD DNPISTPSIK RIGAVTDLFD HNPFGFASVN SFAFVDFSWD
PATTLVDMLN NLDSYLSNHI NIASSPTPIA LDMVVLNEWS EKSYQLCERV VAQAKLINSN
KITAHVSDVI KQNAHNILWF TEQMNPGTTN LSEVPISKKS MLPMSRQLRI LEHYDVPLTA
YSALFWTVSA IKNESMVQYL VRQNMQLTLS SNLDALNSIV SQLPVPDKDV VAASGYQIQP
HFSTQQREAI TTDNPLAIIQ AGAGTGKSTV ILERIEYLCA AGTNPEEIAV LSFTNAAADN
ITAKNDKVTS MTISKMVHEI YAHNFPDHEI STIDTIINTL DIEYGDQMVT SDYMIQLRDL
LYKVMTQGGN ANLTALSIFM ESHIEAFISV LDQIKQTSLE LEIIICYLLL DKLIEPHASP
KYLIIDEVQD NSVFEFVFAL RFAAKHNTSL YLVGDSSQTL YEFRSANPKA LNSLEASGVF
GTYRLTTNYR SNQEILDFAN IHLSDIEANQ FAGIQLYANS FDAPTADSFK EKVELDMHHV
SKQSEFTDSI PYFMESNKAR FDAAILNNEQ TIVLAHSGRE IRAAQQALAE MYPSITVRNL
QSDKGFNNTV FSTFIKDFWF EVTAVDPAHA AFTFTSQVTA HLDKLVRGKR EQMEDRVIRS
MAAWWRENER DIQGWVQQTQ SGAITNEEFF YRLRQCILDY EIRNNRARQS MLNARNNANK
EAVAQEKPLL MVSTIHSAKG LEFDNVIVLQ KPSSDAEMTE EGKRATYVAL TRAKKRELII
AGSTRAYPRI VTDYEQIVDL LEKRDEERKI KEEEAAALAT LEAEQETRAL AAAEAQAQAL
LLEHNPWLRD LSDEEVTALT EQEIINNVEP ALQIEEEEEE ARALAAAEPA IQQYLSQFAF
DEFPDDDNVA NTVVHVAPQP ILHQAVPADV TVQSSTAPVT PVVADLEVTT VAADPVEPTI
VAAQPEVDDN LVYSTSTPNS HSDVIAVNSD TSENAAVNPV LSDIEALRAI FNNQD

> aaRXA01771 (1-702, translated) 234 residues
MHQAGQLIND PSQGLWRTSA LRSPVARVGH AVLRQRAGEI SRMQGREFSR PGDQFRQVDL
RRRLIQVHPQ SIPTADAMAV TITMALTAAT IDPVKFVADS QNPDEEIYLA AQIALREMVI
AMPLEDFIGV RIDLEPVLVA AQAAAKNVGV EVSSILLKDL NLPQEYSGAL QESIVAKIQA
ETDLERARNE VKTTRARLAS AKVLEQNPIL AKIRMIEALP PGSTIEVREG DSKA

> aaRXA01773 (1-411, translated) 137 residues
MITHIQAGLH LGGCRAAGLL PIPAHIDHIV RLTAADFYDT QSAPQLLSNT VLDVLDTTTQ
DLKALWPVAE HIATTIPESE NVLIHCQMGI NRSAALMTRV LMLRNDCTAD EAIALLRDRR
SPFVLFNEHF VEQLRAL

> aaRXA01774 (1-783, translated) 261 residues
MSPNFQARGT TAPTVALSMR QIAHIREEIK KSPLAASVFI TPTTKQMVVR DLESLFQQLY
HTDLPEPSIK DSGLISAIGS SAGNTNNPAL ALETQMAYHL VLAMHHTDVA TWHKVVTKNI
TESAAAQDAA VEHSAKYDAV YDAAQLMGIT VEEGNVGSIA IAFSTARADG KSDWCVSGIS
RYIEVTEALD AARAVTKNTD ALNKTALPDV QPAPVVHSAQ FMNKSAHDHG VNTAEKDQPT
CLKTVHLQPH RYPRTGFKAI Q

> aaRXA01775 (1-564, translated) 188 residues
MSYSLIISKA PTHSMPFNEA ELLELVDELH SDNTVKKPVI VPLPDDFSYT VDSAVRLHDL
GVDQELTDWI TAQVAAAYPN QIVSEIAAAP DPQAKTLFSA NAYNTRSFGT FWTEHPITQL

QYKRCYQIVI ENVTGVYHPL PVDNYRYVPP VTPSLPQPVY HEAIALNESD VADHGTRAAK
HAMINRNV

> aaRXA01776 (1-1452, translated) 484 residues
MTHTDTPAPA HGVTPSEFAV TSHELTTSPT PSPTQVAIAA QEKIRQRKLE ELKAKKRTDT
TAQPLLPAPV LHTRPLPSPN PPRPSPPAPT TGHWELLIVR SQQKKMTAAN PFLKFLHLGK
AFNVKDLGLT CDRTTDVDLS RLGKLNPPSS LILELATALD LHPFLSVALS SHSAVNARRN
QLELTLHNHD TQGTALGHSV TMVQLPEVIN RAAVEPYIKP KGSGNDPLDQ SLNHRAPTVS
DVQKALVQEN TGTATDSNNY LLPFDPDSGA PKTTALNAPN KDLLQARHEL AYIPEIPAIA
SWLDHLDPIM RVHRSLALSI FPVQLLRAAV ENLPHNVTDL HNHLDPEDLL PEELTTWLDH
LFDADLTALA SCPQLAPPIV RSHNHAKAIA AITVTSVMDA LIAKTLDAHD DPLPSLPEFV
ELLRDAVAQL AAHFKQQRGE VLPQPNGLRY ATDFGLLSYI ADGLHEYALA IDFGLIYPNE
LITE

> aaRXA01777 (1-459, translated) 153 residues
MSRIITAPVH KPYIIAREVK GVSHVHDTVG GKWQATLHTL KPGPSWPKPS QFTAPKSTSI
WFIAVATHPR NPRARKGTLL GRGGLYELKD TDLNFLTERQ DLLATSTSRD PEDCRLRFNS
RHDAAAFLHA NARHINKLFH PALGHARYDL IDV

> aaRXA01778 (1-1137, translated) 379 residues
MLYQHTTRGL IISDAIIAKI SQVNQLLLLR PTLLQDKDMH HATLSSDTPS IRSRRRSYRE
NKAAYATTST IRNRETFFST SDIDFAILMI QDVQESLVSF DPTLAQDMKP RTNAVISALN
ELREPLDTFY RAHEYGDIIS DGAYEFDHAA IDAQHSLSEL VAGLHNYDNL MFPQETAPLM
SESNGIQLAQ YYKSTKLDES QLTVEPNEPG ISIMWHAHDF TWSCLVRYDD MNRYPEHFSI
SFKDMLIPEQ IYTFHFTPRE AMQLRKGLFN AIAAYKSQTW GDENTDLTKA ELEFGGTSMT
FRAGLSQLSV TGPPDHRQVF CLSSSGREDH NTPPNMRDGH VIDIAVTQLS TLRNLIRVLC
TTHPDHSPAL LPYGQQYTI

> aaRXA01779 (1-1419, translated) 473 residues
MRYTPRTHRA LGLAALTATA LLLSSCSTTA DLLGADSVAQ AVTDGGSALD PTAAHVLTIT
NATAMTLAEL PENTDPDAAN NTEPTMAQSA LKRIYGLEIA ADGTLIAVAA PLTSRNSGSE
QPTVAAMADP ENNAELTTAH ILEIDPATGT ATPRQDIALT EDFQTMASSF SQIRNGWGTT
QLIGQHPDDP KQPIRSADTW TVTGSTQITG FNTNTPTGTE DAAYTMPATE PAVGLCALES
GSDAPLDEHR ELSTSALRTA SVLSSSGSAT LKLHDPMVMS ATGIVQARAY VDGEVINQHE
IGDLREQLGI TIEESEAAQA ESDAQAATDH PLAALGLSNP TSSALVPGLA ELDCLSADQA
ATWHNRDTSI GTGKPSVLAV INAEMADDFT LQLLSSGATT AETQLAQLPD ETAFVLIDPS
SGAVTDLFFI QSLNTDLPAP TTQINSIAVD ERDPNIIYAT FSGDDHLYQM MLG

> aaRXA01780 (1-375, translated) 125 residues
MTFLHPKAAF YPLTMDHLTD LGLDPEQLIN ELPTITYDVQ PHNVFVLQFS TADVRVYQEG
NTLFIRSAEL INPELRQRQR TQLNDDLNNP ASLRVCDEIS GRSTVFLKDK SVVTHDHGTN
CCDSA

> aaRXA01781 (1-261, translated) 87 residues
VLSLTITGPI AVIPHNPDEA SAKAVATKHK HTLSGATSDH PYAGMTLKDM IEQGFTLTPL
EFPLCAVDDP TDSDRTMHVI NVREHSM

> aaRXA01782 (1-396, translated) 132 residues
MTTFALIASP NNVDPTAESP LAIEIHTDED SSYPLGLIDS DHLVPAVIYG DMVIYTKTLL
AQTPPDDVST ASAFFDKLTA LDAQGRTRDL VYSATYSQLV IAGHNRTVLT DDSEFYDEFY
QVIEAAPGVI LK

> aaRXA01783 (1-237, translated) 79 residues
MINLFAAALP AFEPLSITSI LVLGAVALIC GLPVFLALEK SAELDDLFAA LIIAVLLGFA
AYTFVLPKLV ELGCTICQL

> aaRXA01785 (1-576, translated) 192 residues
VDQFVEFGGG QANINPDGSA TVDWEGSFSI NFYDGLVPFT ITNPHLEVSV AGTGVLTGDL
TSYAVEMSNP NEKTPLTDLY EDVTITTFGG VNLDPEGVVT SNPDYDGVIV DVPLDATSQV
TSGAGWGAWP QGFLDFHFDT NLPSYWYSSD GAGDPKKAPM SFNVDFTNGP GLVNSQLLHR
QVISMPETKA VS

> aaRXA01787 (1-354, translated) 118 residues
TEKIDKAQPP VDQLGSFLHG LETSVADLGV GDRVFLPRFS TFDKKLGRYR IHTVLGFAEN
DPFNPMTSSE RFKGKPYVDM FDNQDNAFNP NSYITTDTVR IVVDPVPETN PDDEKAGR

> aaRXA01788 (1-441, translated) 147 residues
MSRSYPIYII SFAPADDLHG VGGFEWVPAS TPENKAAAFT TFDRQFDDSR NNGGSHIVRL
LNISDPNITA DMTQDDITAY LDSNIDRWES TEHALKQFVP LNAGADRVPT GGADEHITHA
CRIITVQRSC TRIHLRCGCI PTPQHRP

> aaRXA01789 (1-642, translated) 214 residues
MPHNPIELHT NDVLDALDID AICDDVFLYT DFEHTPGQLD RFEQLAFTKI YDMLETAAEK
FPDVAINDTL STGNHAAEQY FLANPGNIIV LTSFALNQTD LRDLIISPCI KYTAHARALM
RAVTRTLCTA NNPVERATIF PVSVANALSI EALCSEYHAF RTKQVLNTAA LINPDNTLIP
MLLSKAYEAY AWHKGVESAQ RGSNLAREYY AGLI

> aaRXA01790 (1-60, translated) 20 residues
VLIAEDIRDM DDYGEDHPDL

> aaRXA01791 (1-363, translated) 121 residues
MTSPTTLKPW SIRGPIDGEY TMLEAYPFQY VANTRPAIML YALDENGVPE QYADLTINLA
DVELKQLNHV IINPDLHADV TELCISAGLL RPGVLGQHQV GSTTAKVYRL TERADGWLQL
F

> aaRXA01792 (1-273, translated) 91 residues
MPQYTITITD EQKAVLHSLT NPHIATAEHG AITAIEIHDD HDVVVYHVQP DGTLTYERLV
EGFHYGWTRF DSEGFEIDSD NNRVVDGLRD E

> aaRXA01793 (1-234, translated) 78 residues
MAQYRVSFIA LAESTIEVEA DSPEEALDLA NAEFDYPVTL AGDPYELHDW EARAEIEWLD
TSSTPQQRLG EHVVKIED

> aaRXA01794 (1-234, translated) 78 residues
MATHRVHFVA TASAYIDVEA DSPEDAIEKA YDLAGDLPGL IADNEFDLGE WEVQADVQWP
DNSVPREQRL EEGVDLLD

> aaRXA01796 (1-483, translated) 161 residues
FYCPSDQDAY VDLTLFDQMR QFGAENAPLA QMYIVAHEYG HHVQNLEGTL GLSNYNDPGA
DSNAVKIELQ ADCYAGIWAN HSSEGPDPLL QPITESELDS ALLAASAVGD DNIQQRSGGD
VNPESWTHGS SQQRKDAFLA GYNTGQMSAC DFLGRGVYND A

> aaRXA01799 (1-1194, translated) 398 residues
MEIPLPTSLI DVITDGALGQ TCIDQAFAAQ LGRVTGVEFN LSDDKTAAEV RINKASGSPF
DTTGEVIAWI NNQEFEWVST RGEDLGLPEL QGIQPLDDDL ITAARTLYSN APAFIAPLRD
GRRALVAINH TPKLVGIRRT LIEGLQALKP GTDLKRALTS FAAFCELGIR FDDNRISFSD
GTSLLLRGGK VIEIAGGLSL RDVRADAAFM SAEHQLLFDA ISSSHNVTFD PHTNVATVAN
EHQVHAIPLA VIDGTRWVWT WSLKELNGQA TEGLARFGFD NGLLLLTNAE ILAEEATAFN
LIDVAKQVLN TWTHTIVQQP DGTGIVLLLD HPRLQLPPAS HAAVEATLYH QLPGDIDARR
AVASYAAHRQ LPFDGYALTV EGQQVGVTFD GEHLTKVG

> aaRXA01800 (1-720, translated) 240 residues
VKPLGKIAVP WTWYLGIVGV IIFDVVAAIT MLTLVPNKMP ERVNSGLVAL GGSYAPPMSR
ETLIARVIAG AVLVLVISLG ISLLISAQSK NLASDHPDAS AIQIARRWAF LNNIQSCIGW
FSFFLAAILS ISSLRLNGPG ATTHLEMAVY IIAVSVLAWA LMISLRRGQV AIDRAIPIRE
DDSELKWGMI YHDASDKRVF VELDDGHTTV INMARGGAWL LIAVMVLPAL AIVGWVLLEN

> aaRXA01803 (1-960, translated) 320 residues
MRKKKDGQNL PDFRKNPPKL DKKAYEKELK RLQAELVDLQ QWVVETGARV VIVMEGRDAA
GKGSAIKRIT QYLNPRSARI EALPTPNSRE KGQWYFQRYI EKLPTAGEIV IFDRSWYNRA
GVERVMGFCT SQEYRRFLHQ APIFERLLVE DGIHLRKYWF SVSDEEQIER FEDRLSDPLR
RWKLSPMDLQ SITRWEDYSR AKDEMFIHTD IPSAPWYTVE SEDKKRSRIN VISHLLSTIP

YEKIDRPLPE IPHRPDSESD YVRPPRDEFR YVPDVAAHLE EERIKKEEKA KKAKKPAKAA
GKNSDKQKSS GGKGKKKSKK

> aaRXA01804 (1-321, translated) 107 residues
MHIVNIRFKP KAKYVDTFRY TVDKFTESTR TEEGCLYFDW FRNTDYPGEY LVIGVWTDEG
ATEHKKSEHF LRAQETLPPL LQQTPMIIQS EFSKKKGWER FSDFTVY

> aaRXA01805 (1-330, translated) 110 residues
VVVVILINVK FKPLPEYVDT FREQVAEFTE KTRAEEGNIF FDWSINTDNP NEFILIEAFQ
DDAAEAHVNS DHFKAACELF PTILSETPEI INTLIEGKTE WDRMAEFAVN

> aaRXA01806 (1-480, translated) 160 residues
MSSLDNAPLL ELDVQEWVNH EGLSNEDLRG KVVVVEVFQM LCPGCVNHGV PQAQKIHRMI
DESQVQVIGL HSVFEHHDVM TPEALKVFID EFGIKFPVAV DMPREGQRIP STMKKYRLEG
TPSIILADRK GRIRQVQFGQ VDDFVLGLLL GSLLSETDET

> aaRXA01809 (1-636, translated) 212 residues
HIRHEQAMRD GHQDLSVFVG ADGAIMLEEL KNRYQRPPEN EPHDDDVTEM IKTTEETEKE
NVEMDQDIAV VDNVDEQVVV TPAHDADSVA VVAEQVVASE PTPEPVPKVE HVEMSVDLAG
ETITPIDQAI RSFMQLNGIE HSVVLRRLGL MTQVAHNKEL DEVYAKALAE GESHAQQQHE
LEAENERLKK EVDALAAELS AALMGEGGGD HD

> aaRXA01812 (1-1230, translated) 410 residues
SFNDVDPAVT HPHLTVIYPP LTPASEEKFN KITSVAAVSK RPTTLPYFRA DGSPTRGFAN
FSTGGIHGAE YNEDRFDHDQ DLHTVATREF FAILDATLAA LYAAHQAEPE SADYQIAQDA
LAWAKNVLSD QKLIAKSPQL YNPETGVTYE WEFVAQAAWW IRNKPVEVIL PTGESMTVKH
KSVLASASYP LRDNVAYWRS EPKTPQLFPV AKSGGSSLEK KYNYTSVGTA IHEDFSSYYP
LLLTNMAAFT NADLGIDEKT GRPRDRYREI YEQKEIYGAQ RKDPSIDEET KQRLGILREG
TKLILNSATG AADAGHDTPI LMNNRVIAMR IIGQLFSWRI GQAQSLAGAT IISTNTDGLY
SVLDMGTNQR VLDEHATAIG VQIEPEELDI VSKDSNSRAE FLGNGYINAA

> aaRXA01813 (1-630, translated) 210 residues
MVAIVVVAIV VVGFIVIQGQ GSKAAKLGDR DYEDTSLAME VGSDSITLTS ANTSADAKSV
QLFEDFSCSH CSELSLATDA DMKTQIEDGN LVVEIKPLNF LDRENIDGHS THALAAALAV
ADSNDATLYW NFRAFLMEDQ SEIYNQWSDD DFADGVEALG ADSSVVDAIR TATTSSAHTT
WQPQTVKNSL KKPAACSYHA FFKTARMLKA

> aaRXA01815 (1-792, translated) 264 residues
MNRSTISPVE ARQQFRAGLI QPTSGWSAGF AQANLISMPQ DLAYDFLLFA QRNPKPCPIL
EVLNAGETFG GIFGSNATEA DIRTDAPQYR IYAHGELIDS PASAVDYWRD DLVSFIIGCS
FTFEHPMVQA GVPVRHLEAG RNVPMYETSL ACRPAGSLSG NLVVSLRMIP ASQVADAVRI
TSRYPAVHGA PVHIGDPSLI GIDDINNPDF GDAPLSEPSD VPVFWACGVT PQAMVMSSKP
PLAITHAPGH MLITDAPDLG FQVP

> aaRXA01816 (1-732, translated) 244 residues
VQLLHTPAAI SISFDDPNLI STAGLVPTMA LAEDRLTVPT DKGANPGAKI TTLIAGMVAG
ADSIDDIDAL RHGGMHRLFD WIYAPSTLGS FLRAFTFGHV RQLDAVASRF LVGLATQAPA
LVPVDASTSD YVFIDVDDTI IKVHGHQKQG AGFGYSGIRG LNALLATVTT PESAPVVVAQ
RLRKGSCGSP RGAGRLIADA VATTRRLPGM EDEKILLRAD SAFYGHPSIS AAIKAGADVS
SRCG

> aaRXA01817 (1-633, translated) 211 residues
MTPNVKKAIA QVPDDAWQTI KYTNAIFDED TGRWISVAEV AEIPFTAFTS RKKTDHIPGL
LVVRRIPELN NKDVDQPGLF DLHRFHAVFT TADPGILDTV AADKTHRQHA IIEQVNADVK
ASALAHMPSG VFTANSAWLV CAVMAFNLTR TAGVIAAGAM ARATTATIRR KLVAVPARIA
RSARRLILHL PRNWRWETQW SRLCDHGRLP P

> aaRXA01820 (1-1374, translated) 458 residues
MSASFDDPNL ISLAGLVPTM HLADAASLST LAQDRLSITG DKGANAGAKI ASLVAGMVAG
ADSIDDMDVL RHGGMRRLFD RIYAPSTLGS FLRAFTFGHV RQLDAVASRF LVNLARQAPH
LVPPPPAGSG GNGYVFVDVD DTIIEVHGHT KQGAGFGYSG IRGLNALLAT VTTAQSAPII

VGQRLRKGSC GSPRGAHRLI ADAMTTTRRL PGMEDKKILV RADSAYYGHP SVSVALRSGA
DVSVTVRMTP NVKKAIVAIP EDAWQTIQYT DAIFDEASQS WISLAQVAEV PFTAFTSRKK
ADHVPGRLVV RRIPELNKKD VYQPGLFDLH RFHAVFTTAD PGVLDTVAAD KTHRQHAIIE
QVNADLKASA LAHLPSGTFT ANSAWLVCAV MAFNLTRATG VIAAGGMAKA TTATIRRTLM
AVPARVARRS RRLVLHLPEG WTWQPQWQKL FDHGHSPP

> aaRXA01825 (1-270, translated) 90 residues
MPKARVTKNE TAPVSSNPSA NRTPVKINSA GTPMWYKVIM FAFMIVGLAW LIINYLVGPQ
IPFMADLGAW NYGIGFGLMI IGLLMTMGWR

> aaRXA01831 (1-462, translated) 154 residues
MDSLVLLGLR IALLVVLWFF VLMALRAMRA DLKVTGQAST SSSSVAAPQG LARAFNRSSP
PRLLTVVEGP LAGSSIEVSE DMTMGRSPEC TFVVGDDYAS GMHARVFKRG SEWFVEDLDS
RNGTFVGGTR IDQPEQIAVG TDIRIGRTAV RLVP

> aaRXA01834 (1-702, translated) 234 residues
MLGGGGAILA IPLLIYGFSF SATQATAASL IIIGLGALIG LISQYAAGHV RLKEGLSFGL
LGLVGSFVGS HLASNIPDSL LLSGFAILTL VVALTMISKL RSTREYITRR PSILAIALSA
TGVGFLTGFF GVGGGFAIVP ALIFALGFSM RQASATSLVV IAVNSAIAMG FRYSDLASID
WSVISPIIIT TVLGAFSGVK LAKKVKASSL QLGFAGFLIF ISIYMGFQNF PDLF

> aaRXA01842 (1-918, translated) 306 residues
MSKVYVSNEY GGPENQELIT RNTPQPGPGE LGVKVHAAGV NPLDWKVRSG VAGTPRELPA
PLGEEASGIV TAVGDGVEGF AVGDPVLGLV APGVGGYAED TLLVAESTVL KPEEISFTDA
AAIPVAGASA YAGTHQVELE PGQSLLINGA GGGVGLMAAQ IGRVHKFQVV GVDHEDKREL
IESTGAIFVA TGDAVAEQVR ALLPDGVDVV FDLVGGEALR VVAPLAKNPA HVISAADAAT
VGELGGQVLR RTPEMVGQIT GVVQYGLVDP KVDTTYPLEQ AGKALAHVEQ GHARGKIVLE
LITSQD

> aaRXA01844 (1-180, translated) 60 residues
VVSIAQELEI IEDGTGAVLV SEQATTFDNG FIGYSYFTTG TDGATCITDL RLRASPLPQV

> aaRXA01845 (1-408, translated) 136 residues
MISNSWAIET TCALYLPVEA LAEVVDAYPQ LALAIMRMQQ DQLVRSRERE TAQTTSTVEQ
RVAAALQHLD AKLGQIRQDG SSLLQVRLRR DDVAGTTVES ASRAMARMKK TGVIDSGREW
IAITNHQALA DLVAGL

> aaRXA01846 (1-258, translated) 86 residues
MSIPGNVSYV AQGGTGWDGA DQYTTGESWD LQSFLENSTD YLMIIGGSLL ALVGGAAVIW
GFVNVMRKLF GGQSGQQIQW FTTILL

> aaRXA01847 (1-735, translated) 245 residues
MLIVLPPSET KTHGGSGKPL DFHHLSFPSL TKARQTILAD LQALEVDEAL KVLGISEKLR
PEAESNRALE TSPTMPAIFR YSGVLYDALD AATLPEKALE RLAIGSALFG VIHATDPIPH
YRLSGGTKLP TKSGELPTMK ARWGTSISEA LIDVNQLVID LRSGTYQQLG RVKDAVTVRV
ESVMEDGSRK VVSHFNKHYK GELARVLALS EKEAHTAEDV MSIAQAAGLV VEENPNHKET
LTLVV

> aaRXA01856 (1-546, translated) 182 residues
MNPFLSDTLI VQQTSSFLSN NFEIYNPDGE VVIRIKTEGS LGSRLVKGDR RFTLEDAFGT
PLMQVRDPMN FVRDTYEIDD PNGNPIAHVR KRFTFFNKRM DIELPGDRVI EMHGNFLGFE
FEFRMGDRIP AKVTRKWSGA GNGYLGRSTY ALIFDEEAPD EIRKVIIGGM VALDLIREKE
RN

> aaRXA01857 (1-651, translated) 217 residues
MASRRFRMML TASITAASLG FSLTPAIADE AVTVATAPSV GFDSGVERDA PFTAVPHDVV
LGVGATQSEL IFNWITAQGL TGQVAQISLD DTFASPITVD AVSENVSIVN TEGDSRDRAE
GEYVEYRDGA VNRATVDSLA ENTTYSYRVG SEADGWSEVQ TFNTGTYGDN WNFLFFGDTQ
LYNTHSNRAE EVQNWANNLE RRPTNRKPRN LLHPLRG

> aaRXA01858 (1-573, translated) 191 residues

MFMTPRALTE DNELTLALKS LGGLMVSPNE CSVVTEVMPT WRELWHQRLR WQRGALENLG
AYGITPQTTR YWFQQLGIGY GALALVAYFA VIIITFLARD QWIWYPFWML LGLLFMIERV
LTVWRSTWFA RFVAALLIPE LIYASYLNLV FLKGVVDILL AKQAHWGEHG DKTMQVADAA
AEINDEGEER R

> aaRXA01870 (1-675, translated) 225 residues
VGVAVVLLLL PTLINLVVPD KANDYKQLEI DLLGVDWSVP ITTEESAAVL CEETSDEITQ
KYWDCNGDTT VVTMIVEGVK DPSNTLRRMV GSSLITSVDD SLEAVSSEDG RAHALYVPGQ
QEGSLWTLPI VALSVQGSGD YEDLTAIAII NGTSLDYYST HIWSSMAADR GLPYQQDFPL
MLEEEPWQDT PGGDRPFELP NDFFDQYPDL FGPGSVIPNL EGESL

> aaRXA01871 (1-963, translated) 321 residues
MSRMFSITLW VAILLSTPAL FLSLATFIFV DGISVLVNIV FAVLYLVVIV FLLSRTPLWP
RFKGSGSKKG GGFAWAASSL LWGAFVGFGI VMLFAGPVMD LTDKLGWDFV AMSFTGAYPE
EIAKALGVAI ILLSFRQLNR PWHGFITGAL VGLGFEVNEN LLYGATGAIM DPNADLDGVL
MMWQYRTMLG PLIHTLLTGF AGYGIALAFF RARKTVAWRW GVAIGWTLIA FALHFSWNLM
WENVIGSYVT IIVVSVVMYG LAIYILWSNW AEARNDSSYA FVPGIITNTK DLSLLDAPIP
VGAEVPESRI PQQIEEPKAE N

> aaRXA01874 (1-348, translated) 116 residues
VIAYVASACC LPFGAFAGAL LSKELSGHLQ ERVLLTHTVI NFLGFVGFAA LGSLSVLFAA
IWRTKIRHNF TPWSVGIMAV SLPIIVTGIL LNNGYVAAQA WPRTWQHGCW PWWGGG

> aaRXA01875 (1-798, translated) 266 residues
VDSLLNKGVA ASDIVAIVRN EEKAADLKAR GIALGVATFE DEAALTAALE GVDRLVFISG
SEVGQRVAQH TNVINAAKAA GVTFIAYTSL LNLGTSKLAL APEHIATEKL LAESGIDHAL
LRNGWYWENY ESSIGAAKAT GKVFGAAEGA RVSAAARKDY AEAAAVVITS DNQAGKVYEL
AGAPALTYPE IAAGIGEVIG SEAEYVNLSV EEYQNALEQA GVPAEFAALL AGMDPIIAEG
ALYSDSTDLQ DLIGRPSTSI VEALSS

> aaRXA01877 (1-1065, translated) 355 residues
LRLATGGVLA TLLIGGVTAA ATKKDIIVDV NGEQMSLVTM SGTVEGVLAQ AGVELGDQDI
VSPSLDSSIS DEDTVTVRTA KQVALVVEGQ IQNVTTTAVS VEDLLQEVGG ITGADAVDAD
LSETIPESGL KVSVTKPKII SINDGGKVTY VSLAAQNVQE ALELRDIELG AQDRINVPLD
QQLKNNAAIQ IDRVDNTEIT ETVSFDAEPT YVDDPEAPAG DETVVEEGAP GTKEVTRTVT
TVNGQEESST VINEVEITAA KPATISRGTK TVAANSVWDQ LAQCESGGNW AINTGNGFSG
GLQFHPQTWL AYGGGAFSGD ASGASREQQI SIAEKVQAAQ GWGAWPACTA SLGIR

> aaRXA01879 (1-588, translated) 196 residues
VKITAKAWAK TNLHLGVGPA HDDGFHELMT VFQTIDLFDT VTLTTLDEEL VEEGSVVKQL
SVTGARGVPE DASNLAWRAV DALVKRRAEK TPLSAVSLHI SKGIPVAGGM AGGSADAAAT
LRAVDAWIGP FGEDTLLEVA AELGSDVPFC LLGGTMRGTG RGEQLVDMLT RGKLHWVVAA
MAHGLSTLRY SKSMMS

> aaRXA01880 (1-408, translated) 136 residues
LGGGRDGAWP VHPEVFKKHD ELNPESHMDI SDLSAALLTG NTAEVGQWLH NDLTSAALSL
RPELRSVLQE GIRSGAHAGI VSGSGPTTVF LCESEHKAQD VKEALIDAGQ VYAAYTATGP
AASTADQRGA HILTVS

> aaRXA01896 (1-579, translated) 193 residues
ARAALHAWSP TVGVDTDVER WIELDKWGFA RFERGETTHL GQRRDRIRAY LNRELDDATC
DDIYSGYLKA YEQNWTAYPD AKGVLDRAVA TGAPVGILTN GAAPMQQDKL DRTGLGLPEL
VMLAASTLDS AKPRPEMYAR ALTHLGARTA TIIGDDWTND VAAPRELGWN ALYLDRSGTD
PRADIHSLDE LFH

> aaRXA01899 (1-786, translated) 262 residues
MSRTLWAVSD LHVTFAQNQN TVDALMPQDP GDWLIVAGDV AEKIPDVVRT LSALVKRFDT
VIWVPGNHEL FNRKTDRVNG KARYRALVGQ LRAIGVITPE DPYPIFGGVT ICPLFTLYDY
SFRPLGLTAK QALAQAKIKL DDELAIAPYV DIPAWCAERV TYTEDRLKAT KGPKVLVNHW
PLVIEPTHRL FQKDIALWCG TTATRDWAVR FNALMAIHGH LHIPAETRVD GVSHVEVSLG
YPFEKHPPHM KRPWPFPVMQ IN

> aaRXA01902 (1-864, translated) 288 residues
NYDAYNAMYP RPNQVDENYF FEYNNALFLS LDSNDYLDID DDIAFLRDTV AAHGDDKDWI
VLTYHHSTFS QAYHMDDARI KYQRERLTPV ISELNVDLVL GGHDHIYTRS HLMNGFTPVD
AGREAVVGET LNPKAGEVVY LATNSSSGSK FYDFYDFQLG QRYDTGLDFQ ETVDQKKIRT
YTAVWNQDQV QDYTNVELTP EGLTVTTKDA VSGELVDQFT LSKQDRDEES EVPVEDDKDG
DNATGSSNLG LAAILAPVLA IFGFVGGLFV GGGSLAEFFA NLGVKMPF

> aaRXA01903 (1-279, translated) 93 residues
AHLDDRGIYI IPAQYPWGYE EIINLPARAT STPAVAPRTE AAPATVSDAE VQSLLEYLRT
NAFVSRHDGD TTKADIFNKH ADTVNKLAAL RAP

> aaRXA01904 (1-423, translated) 141 residues
MSISPKNSGT PNENAAAAQV AANLANLTSQ ATGSMDETNE QVIKSNEHGS DAYLADIKAS
REMWAKIALD PNQSEETRKE ARENMARIDE YAREHDKDNK GLLQKLAKNK AELIGTVAVA
TLGVVAAIAN NGKIPMIQLK K

> aaRXA01905 (1-531, translated) 177 residues
MKASQTLTRN TRARKLGMGI LAATIMATGA LAGTAPQATA AVDTTAPYVS YVVDIPGKVG
EPIKPQYLTI SDQSAYTVTF KYMPSWLKYD ANKKMLYGTP TEVDVWTPEV HVVDAHGNKT
VRYFTVVAVP ANTGPTTTTP STSKPSTPQV TTPTTPKAPT LPKSTFDWTL WGSIFGF

> aaRXA01906 (1-465, translated) 155 residues
MSEFPTPTTF HVEPETLSSA TDLTVDAHKI AELLLSTTDY RVFYMPRLAG VTPIVSYLYV
YDGENFLIVG RSTHVPWEYY VHYPIKPSRE FGSAIAVPLD DSDDPYDAAE VVALVKQYMT
PTLTPGEGYM QGFYKGLTFT NHLDIHRPLT QIISD

> aaRXA01907 (1-612, translated) 204 residues
MSAFDELRKN YRYKFTDTWP ANAVTGTGYY ANPAFIIISA DAMTQNTHAD SNLITVKEHL
NTLFPYSVQR KDRAFVSEIY TPINLLEDNP ELAQEILDVL DTLSNNAVFN DAHYSELELE
RLNEYVIDTL AYDMKSDMMR ALVKARPEAD LEAMEELDIA NIQSWINLHS STVSEHNDGS
VDDAPFNSLA LAEIYLQQLA DHTV

> aaRXA01908 (1-483, translated) 161 residues
MHSDRFEHPD NGYGYTIRQD TDAENPMTHH DTKDAALWVH NRPRRGDTVA DKPEGNEILD
IFAKFICGQH DNDDNPFEVW SDGDSDASLI RTKAYVAEHH PELIFDISAK TITGYSQGDW
LDVVCVTTAA TCDELIPADS LIDIYRQWAF GDVWTVIPDS Q

> aaRXA01909 (1-879, translated) 293 residues
MANFRSKDKD GNVINPNAST KGVDLVVNVY DSAKHVTEKG NTVHFVDVQV AQIPIDADGT
RANANLAPQT MPHLHLDTKD GQRNTGVAYS DAQIQAMQTV AAQGRNHMTP LLSKDGETVG
YSMLVKADVM FPKTKDGKSL PAVMNTKSLQ PSGVPISDAM NIQQQQFMAV AMNRQAAEAQ
KAAQAQATQA QAPQVAPQPV MQNQQFQAPV PQGQQPAYAG APVYADAVAH ATAQQQAAAA
QAPQAPAGNP FNQPPAVAAA LAPQTQPPAV AAALAPQTQQ PAAQPQMDNE PPF

> aaRXA01910 (1-846, translated) 282 residues
MAFPLLAVAG TVAPVAAGWA KDKFLSNSQN NQQAQNQQMS FGQVNNSAQN SGSENSGFMG
QYGNLGAGLA GAATGAGLAY SDFEDGQSLS SKARNMVGKG LAGAGAGVFT KLANDAIQAE
GGSMKASAYS AIASGLGSYL KNGGPGVIKS AMASGAAGFG ADKVHDKLAE SGHEGLADSL
SGAIQGGGLG YSTLGGVTGA GIGGATGGLA GLAQNYFGGG DDYSNAGASA SGFSANQVNS
EISTEIPQFA NLGQPQRSEL EQLALPQESR SVDKSYDQGY EA

> aaRXA01911 (1-846, translated) 282 residues
VFIIGAGLPL LYVPIFVTVI VMVVYALLRY EQRMSGTVYE EADPVEMDSV IWEGIKCDIA
SDIAARAEAK KAKKPVASDA VAVGNYIASL RQHMLVETQR RYHHKLGREL HNDPAQLEDY
GSGLRDCECR ACVVAQKLGV TVHAHGVVQA SARKKDRVII GRADGIDVAG WWNHRQEARR
KTSAAKQLER DAQRKRTQAE RDKEIERKRK AQEFVAEQSG KAAAAQRRAE KKAAKQARVD
ELVAQKQAAQ EQKTHCKRDK QRAKKAQGRK VGAVDNSAVD DV

> aaRXA01921 (1-939, translated) 313 residues
HIDIQRLNEK QLFVGLKRLL GLLGHQILES DRLSGDDAHV DTNEDVLDLI AYNVSDVVGT

RLLAEDPVYS GSFDLRAGLL STYPETVFDH DGTFRQPSTQ MRKDRLTINT SSAQFAARIL
APYRPLRDVP DAIGDMPVVS YLYPDAAVAE ATGQKQVNVL DESKKFFYDN ITDPEARAAF
DEVFAFYADI EGRNFNSHNE AIDTQINQLR AYLNQVVAFD AAGYALYDVR TRFEQIFPKD
RSYINDATDM TPRAVSSFDD LVALCDDIRG VLDRGLEISS PNHHEMVDAM RKQLHYIQAF
TVPGTHQRRF NDA

> aaRXA01923 (1-429, translated) 143 residues
MSALIKGSGP HHVVVLNGWF GHAAGWGAFA DYLDLGNYTW HFWDYRGYGN RKDDAGEFTL
EEISADIVAY IDSIEAEKVS ILGHSMGGVF MQKVLADSAT PIASLVGISA VAAAGTPFDE
DSRKLFTSAG HNPDSRRAII DFT

> aaRXA01930 (1-951, translated) 317 residues
VISTNEIENI HSTRRDIEIA LDESSTSEPK RFSEISHLYL ALAEGKISFP ESPSELRELY
DHLMHGELGK ENELDGEIFR QGPVEIRDSR QKVIHSGFSP ESQIIEGINA IIKLAHSEEE
SNLVGIMMSH FMFESIHPFY DGNGRTGRYL LGIQLSKILS PATALTMSSA INQFRNKYYK
AFHAVEHRLN RGDGTPFVIS MLELLIAAQE GLIENIKQRI DFLASLEDAI KTLRGTNSFK
NHQINLLYIL GQIQLFGKDE TLSLESAAKF LKVSKATATR YFRTLREMEL VHEVSKRPLR
FALTDKGREI VGLEVKI

> aaRXA01931 (1-654, translated) 218 residues
MSTSFESIPG VTISARKALS TAGFKDLESL AGTNYEEVAG LSGIGARTLE RLQAALVEKR
MSFGGKVPEA EQRTATWTTL DSAAPEATET SESPEYFIQN LDIPRRITHG RLLLEIFNRA
TGQKPYVAGS SIVGYGRVHY RYATGREGIT IRVGFSPRKA KISLYGLTSA PASRELLKKL
GKHSVGVSCL YINKPEDVDL EVLEEMIRIS WEAEPGEC

> aaRXA01941 (1-435, translated) 145 residues
MALTSLLHQL ADKKHSDLSR EDIVPRAFTV PTSTDAHAIH QDLEKLRNSV LKEQNHLTTV
LGTWSEFLTS NSDNSDILRS SAELGLQLEQ VRDKALEVEQ RIKASAQVDL TDLAHEIEIC
NQHHATLISA IQVRLQSHTA ELRAG

> aaRXA01942 (1-600, translated) 200 residues
MLRIGLTGGI GSGKSTVADL LSSEGFLIVD ADQVARDIVE PGQPALAELA EAFGQDILKP
DGTLDRAGLA AKAFVSEEQT ALLNAITHPR IAEESARRFN EAEDQGAKVA VYDMPLLVEK
GLDRKMDLVV VVDVDVEERV RRLVEKRGLT EDDVRRRIAS QVPDDVRLKA ADIVVDNNGT
LEDLHAEASK LIAEILSRVN

> aaRXA01944 (1-384, translated) 128 residues
IRNLRLILPD GRTLTPAGIS DSNAWLNMGD SAGKLDFFDA TFALPEDAFT GVAHAWDTTQ
STDGEHHITI SREDGGEISR TIRVDNTAPE LTVSGVEEGQ ELRGTVEIDA QATDAGAGVK
SVETLLDG

> aaRXA01945 (1-1242, translated) 414 residues
VQLPLTTGSI ALDKGEHTLV IRAEDEVGNR TEKTITFSTP DENPISGDYA PSNGATVGVG
DVKLSARASD PSGDTVKMTF LEADSPKLDS GRVRMSSGTV EDAGSVSRAE AKMLERGDVE
KLSSLDGLGM EVTSDAALPY QLFEVDAADA LAADTEVRLN WAGSADGRAQ VIMYVFDGEA
WVEVDRHLTG DELEEFTLQG VVNAEKFAIG GTVTVLIQHS EGFAGADHST RNSDVTAAHP
DDVARSEYDF TLAWESDTQY YNEEFHEHQT NIHDYVLAER ENKNIQFMFH TGDVVDDWDQ
PAQWATANPE YQRLDDAGLP YSVLAGNHDV GHTSNDYTEF SRHFGEQRYV DNPWYGESYQ
DNRGHYDLFS AGGIDFINVA MGWGPDDEEI AWMNEVLAKH PERVAILNLH EFML

> aaRXA01957 (1-462, translated) 154 residues
MTTRTVSTSA PHVTVNINTA HNKTRTVTNG ARKTNAERGK SCISFRVGPE LFDEFKATCI
DNDISMTKAF EKELRTWVDE HNAGATKKRN THRTYVQAPV GTVATSSIPG LGLFTVFKKS
SDQMWYDLES SPLIAQEPMS NMDMHRNGSF ELHL

> aaRXA01958 (1-507, translated) 169 residues
MSKKRDHLTV IPDLESRTHH SRSTQPPTTL PAPQLTIITA PDKHQPQLRV VKNTTTPSSV
QPSPINYSFT DPVLREAHYA FQHSELARPT VLDSHWVRRA QEEFDTEHNA AYVRAADQLL
SPFDAYILDN GDVYTKTPRA ISAAEQEEIL EHLHEHHICW DEEAEFLLR

> aaRXA01959 (1-381, translated) 127 residues

MPHDVYDVEH IISKQPFCSI FFQLPAAALK PTIQKAATNR DLTKLNTEQI AENLQRYLDT
YSVMSHQRVT IEEVTHVRNP HEPDYEFSPQ YGAHISLIGE SYAVNTATNE PYATDSEGHP
LALYFEM

> aaRXA01960 (1-318, translated) 106 residues
MPQHFSQENY RKAPVIMSAP LTIHDLLSTN SKLNLKWLTC TVLNSPNLPE PCITVSVNHT
EGMSLVSFEG GHGLTEIANT QLVPVLELPK FNPFEALAIH LEAANN

> aaRXA01961 (1-480, translated) 160 residues
MTDNADNTTD NVTNNSDTNL DYSFDPLPDE PYAYGFELVA ADAHSDSTTT STDTPETVAV
ALKTREDTIN WVNTQRAEGK PDEIRINNPI RSERIAEFVH EMIMHHGLVA CMEDLAILIK
RDKLTQLEAE NAITAWHNLT KESLGQIMGL FYQYVENNTK

> aaRXA01962 (1-570, translated) 190 residues
MSDNTQDNPF SIRYAHPDHQ LALNELVDTA DLPAPTSYMK NPWSGDNTPI AEWRRERITQ
WQRTEIIVNQ RDDDDLIHVS FPKLGQHIQL NTDDILALVA ACVTPTANDI EATIEENLHS
YPHDTVIMFN ADDLDDALGL VVAVKDASGE HSPRAVWRTN TDHGALDETE LARLILKFGG
SFDDYGVLQH

> aaRXA01963 (1-684, translated) 228 residues
MKNRKKIMST LTTVCAVLGI VAAHPFHASA VIGGSVPSTD SVANAVAKIG PGALNCSGVM
ISPSWALTAR HCVDDINILG DIDTITPITP GIHRNEGNYM GEVYRAPSGD LALININGVH
KGTIAQLPTQ EYPLGTAAQS VGFGGGGVNI RTAESVNMIL TDIYSVRSGK FHHGVGRSHY
LLFDYDSAET GRIHKGDSGG PIFIGDEVVG IMSHGTINKN DGSFDDES

> aaRXA01964 (1-1326, translated) 442 residues
MTSAVNVQKK TTQKVLKPIN TKNYSATDAV QTGQHGSALG SNIGVYTYTA GLDIGNGYVK
GIIEATGDTT GTSVDVIDMP SAATRMSRPT EVPEPDDTAV AVTGADFFNH IDTNFNSPMV
KGNYRYLCGT RSLSARGSLE EFDLVGNRSK AEQELSKVLV MAVLAAKAVK DFVAAHGRIP
QVAVEGDPGV LRVHTYLALA LPINEYVGHR HGYKAQFMGD GAANPAVHVV TVNNFETPAT
VQLIFERVEV IAEGASAQYA ITAGGEVLMN GMLADVRSKG LALEGVTAGD VLQARHTIGV
DVGEGTVNFP VFTDGRFNHD ASRAYDKGYG TVLESAIQAM DDAGLAHNFN SRKQLADYLQ
RPPSALKRNF YTRVEQHVDQ EAVFFVQDVA AEFARVLSDV GALTEVAFVY GGGSGPLRDR
LHEALLIKAA EMGSEDTFPV LY

> aaRXA01965 (1-561, translated) 187 residues
MAQKQDTTHV SEDDAPWRNV RMRFPETDAI VERFLETQGA RGISLAMRQL IYLFVAEYGD
VEVATVIGLK LVESLQAGAE GSDLFAQLAA GVADVDAVTT RKKAPQQIAP PSTTTRAPDQ
VNEFVAEAES QPVEESVVEA KVPKQQVAPQ PAQKPEQKPE QKSAQPAQSE PDDGFDMDDV
MGQAFGR

> aaRXA01966 (1-657, translated) 219 residues
VSESENNTTP AVAARDDRLV WVDLEMTGLD LKRHVIVEVA ALVTDANLNV LGEGVDLVVH
ATEEELAQMD DFVTNMHESS GLTEQIRESA VTLKEAEDAV LALIEKHCDP AHPAPLAGNS
IATDRAFIRE HMPRLDEALH YRMVDVSSVK ELARRWYPRV YYKQPEKGLA HRALADIVES
IRELDYYRRS FFVAEPGPTS EQCADDAQAA VDRFAPYFD

> aaRXA01968 (1-1158, translated) 386 residues
VLAIGSLALT GCTIERSDAQ EQSSQQSTEV EAEEAQAPVI SVDDGDEDVD PSESVIVKSM
GDGLSKVTMT NEEGYEVESE LSDDGRSWTT AETLGYNRTY TIKATDKNGE TATASFSTAT
PAATTNVALS PLADSVVGVG QTIGFRFGSP VKDRKAAQDA ITVTTSPKVE GGFYWLNNSE
LRWRPAEYWE PGTEVTVEAD IYGKDLGGGV WGETDNATNF TIGDKVEAVA DDATKTMSVY
KNGELLRTMP VSFGRDTSEW ATPNGTYIIG DRNESMIMDS TTFGLGYEEG GYRTPVKYAT
QMSYSGIYVH AAPWSVGAQG SYNTSHGCIN VSTENAQWFQ EAVKRGDIVT VKNTIGETLS
GYDGLGDWNI PWSEWSKGNA DQTSAW

> aaRXA01969 (1-474, translated) 158 residues
KCQRRGLSQD PLYKNRNSLL TTQKWFSPRQ QESLEQLWAY DKAYGALKLA WLAYQAIIDC
YQMGNKREAK KKMRTIIDQL RVLKGPNKEL AQLGRSLFKR LGDVLAYFDV GVSNGPVEAI
NGRLEHLRGI ALGFRNLNHY ILRCLIHSGQ LVHKINAL

> aaRXA01973 (1-582, translated) 194 residues
SAMSKSQDDR KIAELEAQFH SLGLNNTELV TLDDAASLLG VPAGIHQIEA EVMLVNFGDG
ADGMGGDTTK FLHYQPDESQ PYVWVMKRVY SFEAMKKLMV GLFIGLCILI VGGPALGLML
GGFIGVLIGL CLGTSAAMIV GPFGLMRMKA YPPCMDSPWV YMSQEQWRTA MGAAQQTEVS
FVEHWDNIYG DNLH

> aaRXA01974 (1-1452, translated) 484 residues
MTQVVAGTLV GESINREIDE DKYPYLSSYA APVAVPVREI IGREEEVNKI MAALMRPEIS
NVMLVGPAGS GKTTLVQQAL VKDPERNYIE VDVAKMVADL STPAQMAARI KGVFEDAIAY
RKHEGHELVL FVDEFHQIVQ LSNAAVEAIK PILAMSGVLG VRVIAATTLE EFHEHIRPNQ
ALTERLQEIR LTPTDQKTTV AILRGMADRY GVSDQFYDDH VFEQIYSTTE RFMPSSVQPR
KSIRVLDAMV GWHRLSGKPM DMDLLGDVLH DAIGVDIAFK VDGTSIKDKL DEKVMAQSLA
TTVVARRLQL VVADLHDKSR PLSNFLFTGP TGVGKTELVK QLARVLFGDD TGRLIRFDMS
EFALESSLDL FRSELTRRVA DQGNAIVLLD EVEKADRAIA RLLLQVLDDG RLSDDYNREV
SFLNTYIVMT TNAGSEIFET ISNYATDDTG DGRAIKDFVK NIHTSIKNKG FPPELLGRVD
EIVP

> aaRXA01976 (1-1521, translated) 507 residues
MTQTLAGERR IVTTAELKAM LARGDKVFLP GVAARAPEIL DNFDPADRAR LDVPAADNEI
VSVEFSRRDT VQCISIADRD HLYITDDMIP THNTSNIIFL KSTDETMIKT LVDWSGERHV
VRRNSKTVTR DLAQLVMRTE GKVSYTSATE KEPVVSYNDL NTLPSQNAIV FRAGQYPVWS
RNETIWPMSF MLFANQIIQP GREYSLQTIP TLSSANEFDV NQNAPDFMAM LEKRMAQSIR
TQRAVDIYKK ATGLDDSDIA RLDMDVYSAE IMDIVDTMIA KDEYDDTPDY DEGDESVMNA
RDFMESEYDV FDDEFEDSAQ GFPVATGTKV KKKSLSEEAE VNDEFIHDQE NAEHKLADMR
LKRYAEGKVS RDMLADQFGH ILQDSLEDEL TAAYDESLHA FAQDPNFRVT ANNGLVNAVD
GTVLIEALSQ EDIALMRAQA GVEQSRVYSE GEEALSGTED DPLSAMGKYK TTRAFRIMLV
ELPHWRDLAQ GHFDKEVARA FRRIEDA

> aaRXA01977 (1-576, translated) 192 residues
MLRTLFVRKI RALLLVLMIA PTPLVEGLTS TAMIVSVVIL AIYMAITMYR VVHGRHEFAH
IARRMALYVN KTSSRFSVVI AYVVLIAIYA LLIPGLVYSV TFGFIVPSTP NTFSDAPAWI
MCVSLLLIAV ASFITSIMDD FIDGILTDFY DEDNADSPDS PAEDIATRPV ESATTSALAG
FAVGYICGRF NR

> aaRXA01982 (1-1158, translated) 386 residues
MATTSLPTTI TPDSEETVEK RHSLTPILDS LPCESVPYAL AAGEGQQHQL GPYHLTVMSR
PEDNGGIFSL ARVSAGKTPA TRFFSVAGPT FLYMMEGRLT LWFADGRQEI IAGGSATIPT
NTPWSFACEG LVNSALVYYS SSNAFLHAAE KLGTSSFSHT FRVSGEVTGI PYEELEDCGF
TFYERDHLAE LGPHFDRLPE DMKAFALNDG EGDRLEQFEQ INSFVCRPRH TGNQFLAMQT
KGAKTPYIPR HFHRLHTENF ICLDGRVKLH VNGQEIILSR GDYVHAPAGT IHSFAFAGHN
TQMLGVLTTE VFEKFFDYIN TPTNARVQLE DGGKPFFPAE AFAKVQAELD VVVVGPPRIS
TLDVVTNSRF EPINRTITYR ALDANQ

> aaRXA01987 (1-213, translated) 71 residues
MTFPAQSRRL ARSTTDKWIG GVAGGLAETY GWNPAYVRLA FVASVLFPLP GSQILFYALA
WLIIPSRENR F

> aaRXA01988 (1-318, translated) 106 residues
MIDPLTPVVP ITTGTSVAEL YADAREHLDN GATQVMIPVI SPSNLTLSVV ALGNQEVDAL
GHSEGQAVHS LLEIHTPKRS WPLSELYIDD NEGLAQVSRC FARLVG

> aaRXA01990 (1-999, translated) 333 residues
TSDHVAQFGM ATASAATLPD SIVTSVSYTL NGLSFSDPVE LGISDNDKRE ELLGDITKGE
LRLQMEFSIP DSATAEDEYV FNLTGDGLRF FNSNDRTVPV RNDAGIRVAD LLVSNGGTRG
TLTNFSSDAG TTSRTAALDM ELYGWVSSAQ QTGERPIQDW TVGKTEGQVE NKVVRYGVAG
HPWIISTVQH TWVKSTQTVS HFRSEQDWKI NQPPAVDMGA LAYAAPLGVV VGHANVVISN
NNGAGFRGAL VNTTPTTRDV ILNFTAADGA TLRERSGGGF EDFDVFSEVP RVEETSTRIS
YSYKNSFEYD EFVAAFPEYR RSCVGTNRCV FSG

> aaRXA01991 (1-795, translated) 265 residues
MTNLLPHFPS TDVAAWEPTV VYSADKTTAT ATFKNIPSDI SFSWTGIEAL EPFSPGKTFE

HKVQGSVGEP AGAFTRDNYF TEGELYKHRH ADDLLSGDGL FGPNITDGDG NLPSVDDGKD
GDDGSDGSDG RDGVVAIDVV DNADGTVTVT LSDGTTFTLD AGQDGKDGLD GLDGTGLTLE
SATPDEDGNI TYVLSDGTEF TVRNGVDGSD GKDGKDGVNG TDGVDGSDGK GLVEVSRVTN
DNGSVTITYE DGSQITTKPT PTNWL

> aaRXA01992 (1-450, translated) 150 residues
VYCPFCQHDH SKVIDSRVID AGSAIRRRRE CSKCEGRFTT IEKAVLLVVK RNGVTEPFSR
EKVVTGVRRA CQGRDVSDDA LKRLAQQVEE TVRSNGSSQV RANDIGLAIL DPLRELDEVA
YLRFASVYKS FDSADDFEKE IRLMRRRGRD

> aaRXA01996 (1-537, translated) 179 residues
MSKLTGTWTL DPAHTEIKFV ARHAMVTKVR GEFTEYTDSI VVDAENPENS SAKVVIKTAS
VTTGNADRDA HVKGDDFFAV DKFPEMTFEA TSFVIKNENE GTVTGDLTIR DTTKSVTLDV
EVGGVAEDPF GNTRLGFEAS TEINRKDFGV DFQAPLSTGG VLVSEKIKIE IDGSAIKAA

> aaRXA01999 (1-471, translated) 157 residues
MTLPTPTHST KGSSGRMKRM ALIGSSLIIS MGLITACGSA AAEPEAPAPT VTETVTATVT
TTAKASTITS TVTETTSAED LAQEIVKPAA VEEYSEPQVN TPQQFAAIPE PAPAVAPAQT
YYANCAAVRA AGAAPLYAGS PGYSSKLDRD GDGIACE

> aaRXA02001 (1-549, translated) 183 residues
TRDPIVAAVG IVQAFQTIVS RNHNPVEDLV VSVTQIHTGS ADNIIPETAY INGTVRTFNK
DVQAMVITRM EEIVAGQAAA YGVEATLTYN RNYPATINDA AKAAIAAEVA GEVGLGVNPN
GSRGMGAEDF SYFLEKRPGA YLFVGNGDSA GLHNPAYNFN DEAAPYGASF LARMAERPLP
LKG

> aaRXA02004 (1-207, translated) 69 residues
RVGRLMRQNG ILIIRSRKFK RTTGSDHTFN IAPNFLQQDF MASRPNQKWA GDITYVWTRE
GLGLSGRHS

> aaRXA02006 (1-495, translated) 165 residues
MTVAHKRSLT WIKRLSATTF AAFLGIQLVT PAHSIENTTQ IPESELHNLG LTDEEIQEFN
QYLIDESLFQ ETVETSPIVV SDNEDAAQDP GFGLFTTNPV KHTDEHIGAL YFSDLPGISN
LTCTANYIGG KFWTTAHHCV EGRSRFVGFI EQSDGQYAGI EHVYT

> aaRXA02007 (1-429, translated) 143 residues
GITANYAFKG KKVVAWKDLA GIGFKGARTF ARPTSDAEVT LPGVTFNSLP RLEAASHGRI
PDAITASKEA ADGKVVVVQE DGYSVMMSKE EYLERQKALG KPVQLNFDDD TDGNTTQTES
VESQETGQAA SETSHRDNPA SQH

> aaRXA02009 (1-123, translated) 41 residues
MTMYNAAKTL VPQIVAFDDT AIIALDQAAE DEFRKANYPE V

> aaRXA02011 (1-318, translated) 106 residues
VANDFIEPND APDAPDNGDS GSSGFVDEAK DKTRSAAQGL GYGALRVGFG TAALAANGAR
SMGNLAKNLW TPMMGLALSA GTGISAATGG MITARVGAML AGTGSA

> aaRXA02013 (1-549, translated) 183 residues
MTESPDLAVS FLAAFNDIEA HLRTQLRAKR SDSFRWMVRI AEKQHLISKE QAETLDAFAE
LRNAISHGQY NDLRPIADPR PDTVDTIEKI RSLLLNPPIA LNVLPEQKVR SYSLEDPVSR
ALEVVHTTEI SQFPIYKGTE YVALLTTNTI ARWVASDLHD NAQLDARSIK EVLDYAESSD
TAV

> aaRXA02014 (1-396, translated) 132 residues
ISLQLQAIST FPTDPEGVWT SFNQLLFDRG LGSLVPALAP ESLDDLPDEV SALRRTTEKN
TTTLINLAKQ HGLVHHDIAP GTYIVGLITI SRPPITALAT ISENSHKALL GLYLSGLKHG
MMANIGEHDG KS

> aaRXA02019 (1-492, translated) 164 residues
AGTKVEASDL GLQAIPTSLL PSTSYDSIDD VVGLVAASTL SSGEIATKPR FVGTELINSI
ATNVTDSSLV EEINMVPLSL AEPSVIPLLQ HGDTISVVSQ DPDTGLPENI AAGGTVILAG

GTDPSTILIA LPQSIAEKVA AQSLNTPLAV VLTGDRANNY TTEE

> aaRXA02021 (1-948, translated) 316 residues
MSENIRGAQA VGIANIAMDG TILDTWYPEP QIFNPDQWAE RYPLEVGTTR LGANELTPRM
LQLVKLDQDR LVEQVAVRTV IPDLSQPPVD AHDVYLRLHL LSHRLVRPHE MHMQNTLELL
SDVVWTNKGP CLPENFEWVR GALRSRGLIH VYCVDRLPRM VDYVVPPGVR ISEAERVRLG
AYLAPGTSVL REGFVSFNSG TLGAAKVEGR LSSGVVIGEG SEIGLSSTIQ SPRDEQRRRL
PLSIGQNCNF GVSSGIIGVS LGDNCDIGNN IVLDGDTPIW FAADEELRTI DSIEGQANWS
IKRESGFHEP VARLKA

> aaRXA02023 (1-768, translated) 256 residues
MAPKQTPSPE KNRNLVGPVL QRRQTEGTFD QRLLEMRADH NWKHADPWRV LRIQSEFVAG
FDALHEMPKA VTVFGSARIK EDHPYYKAGV ELGEKLVAAD YAVVTGGGPG LMEAPNKGAS
EANGLSVGLG IELPHEQHLN PYVDLGLNFR YFFARKTMFL KYSQAFVCLP GGFGTLDELF
EVLCMVQTGK VTNFPIVLIG TEFWAGLVDW IRHRLVEEGM IDEKDVDRML VTDDLDQAVK
FIVDAHAGLD VARLHN

> aaRXA02032 (1-570, translated) 190 residues
MPFLQISLLS IGVAADAFAC SVVRGTAIQV NLFKRALVLA GIFGVFQAAM PLIGWFIGRF
FAGITFIAEI DHWIAFALLG IVGTKMIWDA FQPEDDETIV DDGRVQFRPA IILGLATSID
ALAVGMGLAF VEVSILKVAL SMGSITFALS LAGAWIGHHG GGKFGKWATI LGGIILIGIG
ANIVYEHLSA

> aaRXA02036 (1-381, translated) 127 residues
VHIPFGHLAD TVSWDCGGGS CATNDLVSLF MPAAFMSTLA ACVFGAWAIG LIAPALFIAV
TAWAFRSGVQ AAIADGYTSA TSVGFEMTVS LILFIIAGLC FLGWIPMFIN NRQVARKVRE
RAAGLSN

> aaRXA02039 (1-810, translated) 270 residues
TSTSTTAPLW LVGTLVWLAV QAVMHDGELY HVEVPTIALV IGFGAQLLIG VMSYLLPSTM
GGGASAVRTG THILNTAGLF RWTLINGGLA IWLLTDNSWL RVVVSLLSIG ALAVFVILLP
KAVRAQRGVI TKKREPITPP EEPRLNQITA GISVLALILA AFGGLNPGVA PVASSNEDVY
AVTITAGDMV FIPDVIEVPA GKSLEVTMLN EDDMVHDLKF ANGVQTGRVA PGDEITVTVG
DISEDMDGWC TIAGHRAQGM DLEVKVAAPN

> aaRXA02040 (1-528, translated) 176 residues
YIPFVIWSDL GEAAEGENFA RFWSWLKSRR DKARQQGQTF GVFCYASNGE NHWMLSTARR
FFGKVKGVPD EQEIRSFISS DQWNDMFAVA RSQLVGPGGL GLKQLAPAAG FHWEEEDFAG
EDSLHAYLIA STAAEPEAEA ARAQLLSYNG DDCRATAAVR HWLRQGARTA PVLGNI

> aaRXA02045 (1-261, translated) 87 residues
MNFATIFGSI FEVTLVGILL GAGLPALFAL GIRFAHSPSS NGTNALGKIA STICFAIIAV
AIIAGILWVT KATIYQYSGF DIFGTEG

> aaRXA02046 (1-264, translated) 88 residues
MKETLTTGLT HQMTYIVPAN RTVPHLLPEA AEFETMPDVL ATGYMVGIIE WACMELLRPH
LDDGEISLGT HVNFSHAAPT VPGSTVTI

> aaRXA02049 (1-447, translated) 149 residues
VRYLTLATII AGLSGFVVII IAAWALGDSS QLSEEFTAYW GLFFAGTGVL TGLTQETTRA
VTAGSRGGSR GGRAGSVVGF RPFLFSFVVA AIVLVVLGAS APLWIGQLLS NLQGVGVGLL
AVGLASYAIQ ATISGIFVRL PIVEKSMPR

> aaRXA02050 (1-372, translated) 124 residues
LAIVWAVGLV GAGLAWLVGP WILDVVLQKE LFAVPGWLLA MLTLGATTTA SLMVSGCAAI
AFERHGIYLT GWVVATVVAV GFLLGPFDLG VAAGLALIVG PLCGLLVHMG AFVGGDRNRV
LTAG

> aaRXA02051 (1-498, translated) 166 residues
MVIRALQREE EIVLLSAGAL GIHEKTVERT IRGKRIPGTQ KTVHVQYSYT GKLGIDASDV
EIKSAGDNKL SITIPEFIFI GYDDLKFKTI AEDDGWISFS TDDIDTAEVV SEIMSQENFV

EQVTTNREML EDQAVDFYND LLHEFTEKLD TDRYEDTKIE LEFEFE

> aaRXA02053 (1-579, translated) 193 residues
MSLSVVEAIT NRRATRKYTD EAPTPELIDK IVDLALEAPS AFNAQQREIV VITDPAQKQK
LYEASHQKQF LTAPVTFIAV ARVENEPEDL EEILGTERAE RVAGFINGRS IQQAREATLR
DASLAAAFLI LAAQAEGLST SPTTGWDEEK VKEAIGLGGR EDRAIALVIA TGFPNEQPEH
PGRLQNRRID NSY

> aaRXA02057 (1-531, translated) 177 residues
MKRICAVAIS SVLLLSGCSS TSTTQLEGFD GRSAQEIITE LDQTPVADRA TNLMASIRAD
ELILSDQSGQ LSIDMPADEF YISAAPYTTT THECFYHSLT TCTGELANTP VKVTVVADNG
ETILEEDTIT YDNGFVGMWL PRNIDATLTI EHDGLKSTQP ISTGDDAPTC ITTAELA

> aaRXA02058 (1-552, translated) 184 residues
VQIVSPNGEI ESFVLGKLYE TALVERGRSA SVQLIDGDLD EQLSMLRDDS TDLVIACSGQ
LLEYYNPDLA SEFAVEYANQ TAFDKNSGEW REKVYDALQG SLPDSIVATD PSNAIGCKDD
TSLPQNIVPI YRKPNLDRDN RDTLNFVSGS LGTSDLEALV KDAQTTGTTS ETALDFLLSK
GFSR

> aaRXA02059 (1-495, translated) 165 residues
MTQPRPDAAS VSLEKKRPEG WPVGSFETYP EAQAAVDLLS DNAFPVTELT IVGVDLIEVE
RVTGRLTWGR VIAGGMASGA WLGLFFGIVM ALMSGFWFSS IAAGIGMGLV FGIVGAAVPY
AASKGKRDFT SSTQIVAGRY DVICSPERAR EARDMIALKT RDLRQ

> aaRXA02066 (1-492, translated) 164 residues
MFNSDTTANL QAKSRDRAGS KAKRSRPSFD SVARDVLDVR TKTAQVKNKA KEFSSVDHLS
ADAAAMFVDN ELSRGAMHRA RLHIVHCAEC REEINRQRET VDYLRSECKN EEVSAPMDLK
ARLASLATEC MPGPGAENLA MQRPESFVAK VESVVRAVRK NQGR

> aaRXA02067 (1-456, translated) 152 residues
VGWGEIFLLV VVGLVVIGPE RLPRLIQDAR AALLAARTAI DNAKQSLDSD FGSEFDEIRK
PLTQVAQYSR MSPKTAITKA LFDNDSSFLD DFDPKKIMAE GTEGEAQRNK QAADNNANVV
ERPADGSTAR PTQNDPKDGP NYSGGVSWTD II

> aaRXA02069 (1-579, translated) 193 residues
MADFNRSELD SPLFGSRKRF KFDDDTIGAY AEKVARFFGT GQYLFWQTIF VVVWIFLNIG
GWAWSWDPYP FILLNLAFST QAAYAAPLIL LAQNRQEDRD KHTILADRRR AEETKADTEF
LARELAGVRL ALGDTVTRDY LRHELEDLRG LLDRIEAKLD DEAASRIADR HEQHGSGPQD
LSDPTQGDVA DEF

> aaRXA02070 (1-1098, translated) 366 residues
MTQVTESAVR SALSRVEDPE IGKPITELGM VKSVSIDGSD VQVEVYLTIA ACPMKTTIVT
NTEAALKDID GVGQVHVTTD VMSDEQRRAL RVSLRGETSE PVIPFAQPGS TTRVYAVASG
KGGVGKSSMT VNLAAALAKR GLSVGILDAD IYGHSVPGML GSDQRPHQVD DMIMPPQAHG
VKMISIAHFT EGNAPVVWRG PMLHRAIQQF LTDVFWGDLD ILLLDLPPGT GDIAITVAQL
IPNAELLIVT TPQAAAAEVA ERAGTISVQT NQKVAGVIEN MSAMVLPDGT TMDVFGTGGG
QKIADRLTAV TGEEVKVIGS VPLDPNLRIG GDVGNPIAIS EPHSPTAAAI NEIAEHLAHR
KVSPTK

> aaRXA02071 (1-453, translated) 151 residues
MSNSPTDVST SAPRIMIAPD SYKGTATASE AAQYLGEGVL EILPNASITL APMADGGEGT
SSVFGGQVIT LPTTNAAGRL TEASYTLDSE TNTAYIDIAA ASGLPAVADD LVPTTGDTYG
TGVLIADAVT RGATRIALGL GGSATTDAGS G

> aaRXA02076 (1-534, translated) 178 residues
MKSPFIFDVA ALLRGSALPE HLTQSGPSPT RIGPEMIAIP EGGKVIVEAQ IIPLGGGLAV
EADIEAQLLG QCSRCLRELT PTKTLHVSEV FAADPDFVTG EDAADDEDEL PMVNQDQIDL
LQSVIDEAGL TLPFNPVCEE LGYGACQDDE TPAPDGVSEE VEDEEKVDPR WAGLEKFL

> aaRXA02080 (1-807, translated) 269 residues
MSIEWLQIVE LGAIFGAGFL AGSINVIVGA GTLVSFPILV FLGLPPLTAT IANTIGIVPG

SISGVVAYRR ELHAHVKTIR FLLPASILGG ITGASLLLHF SADVFTAVIP WLIGFGTLLV
IAGPSIKKHV GAHTSGGISA GFRQLPFPSR TTFIVSVCGA LLLGMYGGYF SAAQGILLIA
LLGITSTLQM QELNAIKNLT VAAVNLIAAS VFIIISPELI SWPTVALIAL GSALGGYIGG
RYARRLRPSV FRAFVVIVGI TTVIVMTIG

> aaRXA02081 (1-1629, translated) 543 residues
MTLSGLELLE FERRTAAMET RLGRHNRGAG GAFPEAVVSR SVELPLFVQA RNFLNNQQIR
AQVHRRILEQ LPTEGEIVLL GHSLGSVIAA DLLRRLPPEL TVKGFVTIGS PLANGQFNVD
DLFKLLRTPL SNVSWWVNFW SGSDPVAAKR GVSVAVPWVL DFRVKTSLVP GPGHSSREYC
ANDAVAEAIG FGLFGSRSKE IVLAEKNLQI PLNDAEIFVL QALRYCYLIL QRLKGDEALR
YEYALRETQD RLIEEIKSRN AEEGRPIPKE IARLDFDNGD PNAAAPVPGL SPFMPKEQAI
ERLLEIIGQN LLLPFEIEVP EKIQREALRD FTAETQLGST VGADIFDALQ MAVGVVSGSA
KSNWRKWGAF GVGAAALTAA TGGLALAAVP TVAGVATVAS TLAAFGPGGM MGGLVTAGTL
LTVGGGSLTA GVLSSVNTTE EIEALVVQKL SLAILWQRHE IDRTHEVWEE FAEAERLIVR
EHTRVKNVSD SSSPILKAFE QQRSTIERAL KYLSDHGMEP GWFEELEPPA PTPFLKLRAK
KTD

> aaRXA02084 (1-345, translated) 115 residues
VIIIASVVFL LVGAMLANAA AALFSASEPF GRISYLIGLP NEDDFVPYSL RFVAFFPLML
SASMAASFFG VWAVLIIPFG YFPSLMMVHK HNKQVQRTWD SVTVADFYED STPLV

> aaRXA02089 (1-471, translated) 157 residues
MSSIYSATRY AAHFKSVFPT ALDDIQSMMR HPRSLARAIP TWRPPSIPLP SLPGEDPLTL
TLSRHRAGPA ARQIIREFGE QREPAYLITI RITSPEGFKV STRLAEGWIR AILSTAHSGT
VHQLTDEPAP TFCWLVDAHF DPVRSPSFLF EYSKSAA

> aaRXA02090 (1-801, translated) 267 residues
MSFFEDIAAG LDSDGIESRV NGDTMFVPIT SDLEIQFVEI DSLLPAANVY IAAANVDEDD
DEFEAVLVSV VFSVEDAVAA VAKHVATDQV VTVLRDLLEG TDERIQDLEF FQDAVNANLV
RAEVGQNSEL QVLVEVEDGV PTATVNFIAI GESFEDLIDQ AIEELWESDG DAVLSDEDRQ
RMFADLTSEL EFVTDEVLDL GTFTDFDRLF DILSLADDQA EDWEAQLVPF EDEEFDEPDV
YDLFVDDSEE DDDDLDDDED DEDDDED

> aaRXA02091 (1-651, translated) 217 residues
MSIWKRLLVQ YPRFADTLTA GQPITLEELA TPEVILEAVA KGQEIFGIEQ PKHAAQLWFH
SLCTAIVGPA VTAMVEFDVI PSLDIRRGQL HNIDGYWFGF RPEEMLVDAS LHLSGTQFGE
SIRVVIDALC AATDLRPAPL WAVASDALGI AASGAGVEAF EEEHAREVAE ALIEGMNSVN
SVPSPRFNDD DYFIRAGCCM IFHSPRADFC TSCPQKR

> aaRXA02094 (1-717, translated) 239 residues
MAEHNAIITD AVHSDPAVLE DNAGFSGKYL IRALDKAAHM QTGAIEGYIS WLRKHNPEKT
PAQLQVLVDK HFMRLATGSG AGVGMAAAVP GIGFVTGALA VGAESLVFLD AAAFYTMASA
HLRGIDIRHP ERRRGLILVV LLGTAGKAIV DAGVGDLSKK NHAPGIAISR FNIGGLMEVN
GRLMRYAVKE VSKRFRSALI GKILPFGIGA VLGTMANRKI AKRTVGNAYD SLGPLPTHF

> aaRXA02097 (1-3372, translated) 1124 residues
MPAGIADMTD SLLGWASQTE LDLNQRLAGV EYFPQIQLRH DELERIHRFY GTFLSRQVGA
GASLGDLFEM TPCLTVTTLV SRASRISDPA DFFGEYIGGL GLSAEHAAVV EGLTEKLFAQ
AGLLVPEGIA SPLELLSIHA GISNHEVAAV LTEVENGTTE YPFMFDAVLR LTPEWAQTLI
GGVQELIEFA TTHRTSWSDR QRESSLPAMI DEIVVAELRE RPVGTADREN SVGVALRELR
PRLILDAERR KVCLRLPEQR VSDDEINWRV SLEGTTRIFS TRRAWGDTSG YSEALDITVE
RQIRETTVTD TSNQITWVVP VVDFNDPVLV FSARGENLTD KVSLHHQEIY VLAPAEAKLE
DMVTGQPVPV IEQFLVEGWN SWVCSRVDAR GLSSLKVNKE VRCIDPRRRV AFHHPAELVP
HVRSISGLPV HAQSLIAEFP PTLSGQDETW MLSISAFAGV GAAGEEIAEP EPLEVPADGG
LFAIFDPEIY DAPWVGEYLV RLRGPRNESF RPEFAIVEDM TTEFEVASGA SFRIPTTTGL
SEASLRVRSG EKHFTAEPRL VTVEATDPNA SFVVTTDEGD QMPLRFVPPQ IAIELPLTTE
PPTWRVTRTV CGPRDLDGAG ELRIRTGVDV GDPKVSVRNH HGSPLRTVKM VTPDNGRTWI
ASMKEIAAST FVMPRGSIEF EWTDRKVDRR VSVTIAVIDK TENFTGITIE DGKLVFEELA
AGRQLAAWVW PQTAPWVSAV ELAVTGPELE LPEVLVGAGN LIVQLHTADP FTTSVTPLSP
GKAAVTVEQE GYYSAQTEEY AQLSAFFGGE VEEPPISDAV VPALWDVSHI WTEQGNTEHL
PVVHAALRSS PAAALKGLSA SLVPAQALPG KVISSGLAAS PFTTESPATE VHRTAWIGTL

QLLGALPSAF KEAEELGNRT PLLPILGQLE EVAGKNILST LATGRDSTLD TACIDQSTVA
IAGMNETQQK ALLDMFFSNA DIVPGPLMED NTRLMAVFET FKKRDALREV LQTEGLIKTA
VELLRAMRGT QRQLYSSARI RFDKLDGVNT DNPENMWALT PVVSLVFALS SRLHAHELIG
KTRTLDRASA GWGRIADLVP DLVTGDLISA EAMVLGARNP GLVD

> aaRXA02102 (1-1158, translated) 386 residues
MTSPHSFSVT PIRTMADGTI KQIHPFTGTE VWTVPGRGNR PLSHPASTIV ELSAHDHTSY
CAFCSDNMLS TPPEKSRIII DSSGDFDILP GALPGELSET TPEFRRVPNL FEIVSFDYWH
QNFGFDMDSE TAMRMAQYLA IPEGREHVLA IVRTRLSAAG EDPAHMTDGE LLEKAPSYFA
GGHDVIIGRR HFVDDATTSD QLASSGTLTV KEHEAFIRLT VDGIRDLYHR NRYAPYVVAF
QNWLKPAGAS FDHLHKQLVA IDERGRLIAD ELHHLRGNPN MYNELAVDYA GYHNLIIAEN
DHAVAFAGFG HRYPTIEIYS KSAIPEPWLQ SDEEIQAMSN LIHACHAATG ADVPCNEGWV
HKPIDVDMPM PWHVMIKWRV STLAGF

> aaRXA02103 (1-396, translated) 132 residues
MPKIQFDVLV PDTDSIALAG RFTVVANLLI EKGLMDHGVV VHDPAAKIAE AVEEQLRQTY
RDEHEDADLE ESSVNRYLIE VDGVKGSVNQ VTMIFARLLT PPAELPKDAF LLEQELAYEV
PAVYPWTVEI LR

> aaRXA02104 (1-420, translated) 140 residues
HACAQLEVDG TKPGMGAAGG IAIGLTWLST LMHGNDQQIH ILPGAPLIAR SNGIEDALPE
TDLLITGEGR LDSQSFTGKV VGTLHGLAKA HDVDLAVAAG IVEGGIPDDF LAVEMIKSSD
VAAQLRDAGR RIAQEYVAQN

> aaRXA02107 (1-342, translated) 114 residues
MDLHKVAAAH AATLPLSTKE FPFGPEHEVY KVRGKVFLLL TILNDEPIIT LKSDPEIGAS
LRSGFPTIQA GYHMNKVHWL SISDGERITK DFIEGLVEES YELVISTLPK YKRP

> aaRXA02108 (1-435, translated) 145 residues
MTIYAPRSVA HSIPVECHIV EHGRNFTVGS LSVEVLGSEH AMLTHSMPIA ENVGYLINGR
VLHPGDTFQP IKDVELALVP VNGPWVKMLD VEGYLKKFPP KRFIGIHDGI VNDRGLAINK
KFLTHLGETY GSEYSPLEEG ESLEI

> aaRXA02109 (1-921, translated) 307 residues
MLAVLFGVVA GAIMPFQTSV NNRLRQSVGA PLLASFISFL VGTFSLLVAT WITSGHPYPA
LGNTTGQPWW IFTGGMLGVV LLTGNILLFP RVGSVQTVIL PISGQIIMGL IIDTTGLAHS
PQAPLTLFRV LGAAAVLVGS LAAVGVFSKK NIGQTQSQGA SIWLWRLFGV VMGMCQATQV
AVNGYLGTVL GSPIESALVS FAVGTTALFI LLLVTRTKWR GINGAGKKNP WWMWIGGVIG
ATVIFSTAYL GPIIGTGVTV VVMLLGMMLA SLMIDAFGIL GSPRRHIHIA QLLGLVVIIL
GVTMIRI

> aaRXA02114 (1-486, translated) 162 residues
SIGYAWTTAF HALTPGLGGI AIGIWLLGGV LGGLVIRKPG AAIFVEVVAA CVSAALASQF
GISTIYSGLA QGIGAEIIFA LFLYRRYSLP TTMLAGMGAG GGAIFLEMFF YGNLAKTMSF
NIIYSTTVLI SGAILAGLLS WYLVRALART GALDRFAAGR EV

> aaRXA02117 (1-474, translated) 158 residues
VSTDPEEFDQ AETLDQLAYE IILLTRYGVQ NTPTNKREAI MDRSALILLT RLDAQGPMTV
NELAESFGLN VSTVHRQLKA AIANGLIEVV DDQACPAKLH RPTELGKEKL QQELLARQQD
LTRILHDWDE EDIKTHAKLL RKHNESLEEY LDMKWPRP

> aaRXA02121 (1-705, translated) 235 residues
MITSPFEREL KLLNEGELGI VQQLVESSNI GFIVDLELDG DYGWAVYKPE LGEQPLWDFP
PGLYKRERAA FVISEFLGWN IVPPTVIMHD APAGVGSVQW FIENNGEHYF PLFDTRADLH
PQFVRMAVFD LLCNNTDRKS GHVLLDGDHI WGIDHGLCFS VEPKLRTVIW DFAGCTIPDD
LVTDVEQLLE DVPEELHQLL HPAEIDALQR RASRISRLPF LPQAKSHRQF PWPLV

> aaRXA02123 (1-1371, translated) 457 residues
VWGVSLPPNV QTVGELKAAG HIYRPLRVEI RDNLLAKLRS GEDPWPGLHG LNYTVIRQLE
RALIAGHDIV LLGERGQGKT RLLRTLITLL DEWSPIIPGR DVPEHPLAPN VEISDDQPIE
WVHRDARYTE KLATPDTSVA DLIGDVDPMR VAEGRSLGDL ETIHYGLIPR ANRGIVAINE

LPDLAERIQV AMLNVMEERD VQIRGYNIRL DLDVLVVASA NPEDYTNRGR IITPLKDRFG
AEIRTHYPLE LDDEVAIIRQ EAELVAQVPD ILVEILARYT RALRESSSVN QRSGVSARFS
IAGAETVAAA ALRRAAVFGE DEAVARLVDL EAAVEVLGGK IEFESGEEGR EWEILDYLLR
TATAEALRST LRSLDLTPLI AALDGSITVS TGTNITASEF LASLPELGES TLYDDIAQAF
GATTPSTRAM AIELALEGLY LSRKIAKDSG EGETIYG

> aaRXA02124 (1-1956, translated) 652 residues
MATSHSRPRR SRYGRYTGGP DPLAPPVDLS DALRDIADDV MAGYSPEQAL REYLRRGARG
QEGLDDLAWR AAERRRELLS RNNLGGTLAE VRKLLDEGLK LERAQLARDI DMDDTDRAFR
EMQISNLPES TAAAVSELNS YDWQSQEARQ KFEQIRDLLG REMLDQQFSG MKQAMEGASD
EDKAAIAEML RDLNDLLSKH REGTDTPTDF ANFMAKHGEH FPEQPRDINE LIDALAARSA
AASRMFNSIS EEQRRELMKL SAQAFGSPEL QELLGDLAGN LQGLRPDLNW DGSEQFSGDE
GMGLGDGTGA MQDLAELDNL AEQLSNSHTD LDIDAIRRQL GDDAAVSAET LAKLERALRD
SGLLRRNPDG SLKLSPQAMR RLGKALLDAA SEQLSSRPGS RDSRLAGANG EATGASRPYV
FGDTQPWDVT RTITNALQRT AGTDTEGPLR INLDDVEVIE TEARTLNAVA LLVDTSYSMA
AEGRWVPMKQ TALALHHLVS TRFRGDELAL ITFGRHAQNM DIEELTALPP VHEQGTNLHH
ALLLAERFFA RHPSMKASLL IVTDGEPTAH LEADGHAWFN WPTDPETMFK TVTQLDKVTK
RGTHTTLFRL GHDQGLEHFL NQLADRVGGT VVAPDLDGLG AAVVGEYLRH RY

> aaRXA02125 (1-801, translated) 267 residues
MVATSQFIDD SEAAQAVRAA IVAGYRNIDT ALAYGNERGV GEGIRTAGVP REELFISTKL
AAEIKDYDGA VAAIDESLAK IGLDYVDLML IHSPQPWSDF RGGDYSEGNR EAWRALEDAY
KAGKIRSIGV SNFLEADLEN ILDSATVAPH VNQLLVHVGN TPSELISFCD SKGILVEAYS
PIAHGEMLKN QQVKAIADKY NVSIPQLCIR YTIQLGTVSL PKTANPDHMS SNAQIDFEIS
EEDMAALQEV TARDYGEHSG FPVYSGK

> aaRXA02129 (1-234, translated) 78 residues
MKIIFKMASN KFIDNKKGLA MLVFAELVME MLDQPEEQLH NVRGVAIEKR EFLKALTADF
TSRLKQAQTD KILVWDFA

> aaRXA02132 (1-639, translated) 213 residues
VHNFSFDVDE SYAKKNNEIL RDAKRLQISA LCLGLILGGG AVAVYLFSNG AVWMWMIAIV
MVFLALLSFI MIPVIPRQMG NAQTLYDDYE LAPAIIAEVN PRDVVLLALV NRNVNPEAKP
EWALATRTIV RVGAHERRLG ERIPSVAITG RRTVKDQDHW DEISPMPITW GTTDKDIIRE
AEKTIPHELW AKLEKNRGKL EDVKKTPNNL FKL

> aaRXA02137 (1-798, translated) 266 residues
MVVLIPFNDE VCTPIPDLGG FPCSLLSVKL PWDKNKNNEG ADAAGQDASS TPETATPDAT
EQKLPKGHTA PKGRPTPKRR EVELERGVVG GQSLAPTDTY AQQRQKRKEF KASMTKEEFK
AYKQKERDAR VKRQRETQAA MDRGEDAYLM DRDKGEVRRF ARDWVDSRRF LSNFVMPVAI
ALLVVMLIGN FNPSFAATSS MVAMVLMLGF LIEGITTGRR VNKAARTRFP GTTETGFGLG
YYAYSRTIQP RKWRTPRARV EIGAEV

> aaRXA02138 (1-342, translated) 114 residues
MTAPSTNTGV ILTESAASKA KALIDQEGRD DLSLRIAVQP GGCSGLRYQL YFDDRTLDGD
KEDIVGGVRL VVDKMSTPYL LGAQIDFADT IEQQGFTIDN PNAGSSCACG DSFN

> aaRXA02141 (1-408, translated) 136 residues
MYGPTVFMAA MAVIYIFATM HVSDGGSVKG VEWVGSVALV LSAGLTLMLG VYLHFTEVRV
DVLPEDWEEA EVADKAGTLG FFSPSSIWPA AMSGAVGFLA FGVVYFHYWM IAVGLMLLIF
TITKLNLQYG VPKEKH

> aaRXA02146 (1-627, translated) 209 residues
VGKHRRNNSN ATRKAVAASA VALGATAAIA SPAQAAEVVV PGTGISVDIA GIETTPGLNN
VPGIDQWIPS LSSQAAPTAY AAVIDAPAAQ AAPAASTGQA IVDAARTKIG SPYGWGATGP
NAFDCSGLTS WAYSQVGKSI PRTSQAQAAQ GTPVAYSDLQ AGDIVAFYSG ATHVGIYSGH
GTVIHALNSS TPLSEHSLDY MPFHSAVRF

> aaRXA02151 (1-1188, translated) 396 residues
MDWPDIAKGI SILGVVLLHV SLAIPGGQDT MMSHLNALLD PLRMPLFFMV SGFFAVKVLN
QSFGELFRGR LWFYLVPYLL WTPVNLYLHR LEGTVFTGRA PGTWEWYSGS MLSATNMYWF

LYFLVIFNLF LWATRKLPAW AIVALVASLW LLMPAYSEIE ILRKSIIYLP TFLIGAYFRP
LISRFAEAAT RPKAIVFAAV LYVSGLALGV ISNGLRDSEN HGASVLWLMN LRDTFAHALG
GNLTGFDMDH LPGMIIRIVS LPAGIVLCVW LGRIKPVGEF LKLIGRHTLP IYIGHATGLS
LIFGFGLRWN FMEIDNFSDS LWHHTNTWMV IAFACAMLGG YLTYLISRVP VLGWTLVPPK
LPEPDKTPAK AQADSHVKAQ SAKPMNASTS SKTYGI

> aaRXA02152 (1-402, translated) 134 residues
MAIYRKLAAS AAALALSASL VACGDSEDTT EETSTTSSST TSSSSSSSS STAATSEESS
AVEEPAVEAP VEEAPVEAPV EQAPVVEQAP VEQAPAPVQE APAPVEQAPA PVQEAPAADA
PPALPGGGGG HAGY

> aaRXA02163 (1-753, translated) 251 residues
MAVATFGTIT DMLETKGIVS NVGGTDTIDL GALLNETQAG TRWSELSPNY QSNRVVQIST
TDVRTSNSAA MYLSMMSWVK NGGKTVSSTA EADAIIPELS QLFVGQGYTE STSAGPFDEY
LSQGMGSKPM VMIYEAQFLA EQNKENSRIS GDMELVYPSP TVYSTHTVVS LSDVGAEIGE
LLETDETLQQ LAVKHGFRPK NSAMIADAGM TDRMPNNLNV IDPPDYDFLE RLIDGVGASY
SATPAEEDTD L

> aaRXA02164 (1-1575, translated) 525 residues
MKNLVKGTAL GLSLVLLAGC STVSDSIDSL GGGLGGSSET LKIVAATELE DLQPAIEQAS
DDLGFDIELS FPGGTLSNSQ ALMDGAFDQD YDATWFATNR YVDLIGASNK LGETTKIATS
PVAFGVKTSM AQELGWDQRQ PTWEELGQAS QTQDFTFGMT DPATSNSGFS ALVAMATAYA
DTGQALTTND IPAIAEPMST SLSGQTITSG SSGWLKDTFL EQPDRANAII NYESVLHTMI
SEDGADITVV VPADGVVSAD YPLSTITGSD QGEHVAELAG WFAEHPDALT DTYRRPTTAN
ATLPAELSSQ TIIEAPFPGS KTVTDALIDA YTNQFRVPGE TTFVLDVSGS MLGQRITLLK
DTMSDLISGG ATTDLANVSL RDREKVSIIP FSFGPHEVIS ETLGAVGSPS RTDLQQRVEA
LQADGGTGIY DAVLAAYAES AGGDYIPSIV LMTDGELTAG RTYDQFLTEW NALPSNIRSI
PVFVILYGEA NVADMEQLAA TTGGETFDAI NGDLDEAFKE IRAYQ

> aaRXA02165 (1-612, translated) 204 residues
VPTNNGGSFF FSRKNLAGIA IATLIIALHL VIGLGAFWPV VAIAGYGAAV ALTPKNPPKK
ELPPVQATPE LDSPGLLAAR SQELVRTMYS HGAAAPVIEA IKRLDSSLQL VIGNWTSLTN
FPEHQVTIRS IINQYIPGII DAYLKIPTRN DPRAVEDLIE SFDLLNSETM KIFNAIQEQG
LNNLEDHGRA LRMQFGQLPE EFRE

> aaRXA02166 (1-177, translated) 59 residues
MSLDPQLLEV LACPKDKGPL RYLESEQLLV NERLNLAYRI DDGIPVLLID EATEWTPNN

> aaRXA02168 (1-2814, translated) 938 residues
VSISSLTPLH SFKEPAILYA GQASAWQQVI ADSSEDHITA THLRELLSRS RAKTAPFARQ
ITAIVPGSLA RLEELTREDA QIGADIDAQP AVSIPGILLG QIAATRQLRD LGLDVAAASR
LGHSQGILGV EAVDNEEDVL AFAILLGAAA SQFAGKGAHM LSVRGLSREI IQDTIAGVDG
VEVSLRNARA HFVVSGKPEA LKKAAAALQR AADVYNEDIN EKRKGGSLAE PKFDYLDVAI
PFHHSSMQDA ADLAVEWATT CGLNVNARAL AEAILVNPAD WVEQIANLKA DYVLSLDAGV
SRFTAPLLDG RGISLVPAFS AAERDNLARP GFHVPTAEDW SEFAPKLVKL PNGEHKVLTG
FSRLTGYSPI VLAGMTPTTV DPEIVAAAAN AGHWAEMAGG GQYSEEVFTK NKEKLVSLLK
VGRSAQFNSM FFDRYMWNLQ FGAQRIVSKA RATGTSINGV VVSAGIPEVE EATELINDLN
ADGFPYVAFK PGTVDQIRAT LKIADANPET KIIIQIEDGH AGGHHSWVNL DDLLLTTYAE
LRSRKNVVVM IGGGIGTPAK AAYYLTGEWS TDLGFPAMPV DGILVGTAAM ATKEATTSPQ
VKQALVDTPG VDPHDAGGWV GRGDARGGVT SGLSHLHADM YELDNDSAAA SRLISSIDSD
DYADHREELI EAINKTAKPF FGEVEEMTYA EWIQRWVELA YPTQDPTWDD RFLDLVHRIE
ARLNEAEHGA ITTLFPDHAS VENEEEAVEK LLAAYPQARE IQVSARDAAW FIGLCRKHHK
PMPWVPAIDA DLARWWGLDT LWQSQNERYG ANSVRVIPGP VSVAGIDRVD EPVAELLGRF
EAACVDALDG EPEEIFARLN ESKNEREFLL ATPHIVWHGN LIDNPAHVLN EGAFELIEED
GYWVIRILAD SYFDDLPVEQ RPYLVQHVDI PVELGDAG

> aaRXA02169 (1-846, translated) 282 residues
LDMQINRRGF LKATTGLATI GAASMFMPKA NALGAIKGTV IDYAAGVPSA ASIKNAGHLG
AVRYVSQRRP GTESWMIGKP VTLAETRAFE QNGLKTASVY QYGKAETADW KNGAAGAATH
APQAIALHVA AGGPKNRPIY VAIDDNPSWS EYTNQIRPYL QAFNVALSAA GYQLGVYGNY
NVINWAIADG LGEFFWMHNW GSEGKIHPRT TIHQIRIDKD TLDGVGIDMN NVYADDWGQW

TPGNAVDDAI PTIPGNSNTG TGTGIDADTI NQVIKILGTL SS

> aaRXA02170 (1-774, translated) 258 residues
VSTVLLAGVV IIGGIFTLPQ KEEVKVSELQ PQASAASIPS SSSTAGKAVE ESPLTQFVEN
STGSQITYMS LKDDFHTGTS TERFARPALS LSKLYIAEYV LEHGTNNEKS LAMEMIKDSS
DVSAEILYEA YPESIEEIAD QYGLLSTRGD AHWGYSVTST YDLVKFVSAL IIDDPDSPIL
EAMRNASAVA ADGYPQDWGT AVLDEAEGSK WGWSDDLMLH SSVTFGEDYV VAAAVTGSKE
DLTQLVENQL GEVVSQHG

> aaRXA02172 (1-339, translated) 113 residues
VNAEQITQGR RQPTAQEFRD MQASPEFGEL RSKFRSFAFP MTVAFFLWYV VYVLVASFAS
EWMATPVFGA INIGLIFGFL QFVTTFVITY IYVMFANKNL EPRQAAIRQK MEG

> aaRXA02177 (1-933, translated) 311 residues
MREIFLISGD STESSLVFKT SEEDGAEEFF IAVTDELHAI LAGHSEIKSA PEPEEHKEVP
PPVLEPVAAV EEPREEKEID PRISAPLTMS PREIQIRVRS GATIEELAEE IGVTEARVEP
YAHPVLLERA RIADLAKQSH PIRENGPAKL TLWEILATAF ATRGHDLTTA RWDAYKDATN
QWIVRVDWKA GLSDNYAEWT LNLHNTSNPT ADPRTPVAAD LIDPEFIQPV RTLTSVNSTQ
EQYDDETDVF DTVPSPDDAP DSESDAVAEI TNDNEPEVDA EGPRNRRRKA VTPHWEDVLL
GVRANTKRPK K

> aaRXA02178 (1-870, translated) 290 residues
MPSQLGENAA IVTLWFVSAS DPQSIIRSEP RADRGYGRKL LAQLNPTWPI TPIGQFALNR
SVPASANEFY IAGFPGITII QTVLEDVTSL SKLNPRLLRS VPATDVYIFA VNEETTLGGF
AHIYNGEIKR SFIAYEERVF EDNGIPGGFE TPYWAGKKGT RKTALSLPFN PIELVHEAQR
AWLGFDATTS PDINVVAYAT DGRPEPRIAA PRIINSEEVT RSAVEKLGLR ESAFYDDYEE
YEAPDRVVSK RITSNAKKAA SSAQKFGKSL WRASREFGSN MAERLRHTDR

> aaRXA02180 (1-1458, translated) 486 residues
MTSGKSTSTR GALDRYFKIS ERGSSIGTEI RAGVVTFFAM AYIIILNPLI LGTTPDVEGN
TLGIAQVAAA TALAAGVMTI AFGLIARYPF GIAAGLGINT MVAVTLVSGE GLTWPEAMGL
VVLDGVVIVI LAVSGFRVAV FRAIPASMKA AISVGIGLFI AMIGLVDAGF VRRIPDAAGT
TVPVTLGIDG SIASWPTFVF VVGVLLCGIL VVRRVRGGLF IGILGTTILA IIAEAIFDSG
ASFENGEANA EGWSLAVPGL PDSFGGIPDL SIVGAVDLIG AFSRIGVVAA TLLIFTLVLA
NFFDAMGTMT ALGKQGNLVD DEGNLPDIKK ALVVEGAGAI VGGAFSASSN TVFADSSAGV
ADGARTGLAN VVTGSLFLAA MFLTPLYEIV PIEAAAPVLV VVGAMMMGQV TEIDFSKFYI
AFPAFLTIVI MPFTYSIANG IGVGFIMYAI MAAAAGKAKQ VHWLMWLVAG LFVVFFAIDP
IMEAVG

> aaRXA02181 (1-678, translated) 226 residues
MVDGHIRNLQ GHIDRLEAAA PTASQFHDRI ITQLREAPGS VQAAVTIENN HYNVELRPPR
KLNSLVTLDT HGHRDERLHP KIKGHDIAWQ NTATANSRRQ GADDGLLVDE SGQVIMAINA
SLLAIKGDTV FHSTHPRSLP SVLESTVIAY LQEQGCNAKP REQGFNINDL RSSEVWLVDS
LSGIRRVAAW LEYGSKFPVS ETRPVAAFVP TFSEVNDYLW STAQQV

> aaRXA02183 (1-525, translated) 175 residues
MASRKTKRKN LIQILSLIVA VLLVVILSVV FQQWWNNRPE PLPQEISISA SSPAGEIEVF
PFSMCEPGVE CEENEVPTLE VGADEELHLT IPEAIHDHDW YLLTIYDDPA ANDEFYHTSY
DATEATVPGS VDPTEEGAER PRLVVVEVSA VMIGEDENGE ESPYTVTWSL STMNE

> aaRXA02185 (1-579, translated) 193 residues
MGRHSTKTSS AFTKLAASTI AFGAAATIMA PSASAAPDSD WDRLAQCESG GNWAINTGNG
YHGGLQFSAS TWAAYGGQEF ATYAYQATRE QQIAVAERTL AGQGWGAWPA CSASLGLNSA
PTQRDLSATT STPEPAAAAP AVAEYNAPAA NIAVGSTDLN TIKSTYGAVT GTLAQYGITV
PAEVESYYNA FVG

> aaRXA02186 (1-219, translated) 73 residues
LFPEFERMYD MANVEKKHFV DPAWPEHNPA DGHVVTELIS KVAGASSPWG DDKEFPVSAE
ETGYVHPYTR INR

> aaRXA02187 (1-2199, translated) 733 residues

MKKDSPIPTL KGWLDTQSDD QLSTILRNRP DTVLPLPPNL ASLAARLQLR ASAIRAVLKL
NALELGVLEA VANLGGELHP VTAPEVVEYL HVALAEDLPA QDTIGAALAT LKNFALVYGD
DQLMIAQETM AALPVHWRLL PEVSDRGQSE EQVRESVDKL SDRHRKLLHT LAASGGFGLT
RDAAPDADPS RPIPQLLASG LLARVDEQTV RLPAMVRRVI EGREQLPAQV RPIPRTAAPG
SNDGGIAAGL EVVRHMRLLI DALSHVPAPT LKVGALGVRV VTRLSKELDL DETELARLLS
LGMASGLIRK GVPDPLPMDD DGGDYVAPTP LADEWMEYDL AHQLGTLMSG WWKQTYAPWL
VGRADDKDKP IHVLSKTSII DSLPDARAKI LSSLSRVLVD NLHADLAFHY PLAASRMNPD
TITQLVQEAQ WIGAYSQGVT AAGQALIDGE NPTEVIKAPA PVENFIVQGD ETIMVPGPLT
PAMQKTMDSI ASLESPGLAS VYRLSEKSIR HALDLGLTTP EILEFLKEHS MTDLPQSVGY
LLSDIARKHG TLRGGPALSY IRSDDPALLH SAVEAGADVA LRQIAPTVAI AQAPLLQVIT
VLRAAGFQPV AEDGEGASLN ISPSPARVPA ASPPPVVPAL DESRVQAAVK AIRRENSASQ
GTVSTQPTLS VLQAAVRGQR TVTLGFVDKQ GVAVHRVVKP LTVNAGQVDA VDEATGAVHR
FMLHRITEVI VDN

> aaRXA02199 (1-570, translated) 190 residues
MTDSTPQGST PGMSPEAILN GTGKPWEEWL KLLDDVKATS WTHTHIAKHI VDNFDVSGWW
AQGIAIGYEY ERGMRKPGMT SDGFAANASK TLNLPVEKVW KLFGDDDLRA QWLDPALIEK
TSASEPRTFN AKWLADDSRV SVNFTSKGDN KSSFGIQHRR LPDQDSIPVM KAFWKERIAA
LVEVSKQFSL

> aaRXA02203 (1-378, translated) 126 residues
MTIRATFQPS VDEFISTLEE FATGSYLKED EKEFWDEPFD VKALPDLRFI LENYLDSLDK
LGEAPDLDAV NASAQSTLDE LEKFNTKHHG AVVEPEEKEE ITKLMFDAAK QTGADDLSAE
AFPEFE

> aaRXA02206 (1-936, translated) 312 residues
MVGSSGLRVS RLGLGTSTWG SGTELAEAGD IFKAFINSGG TLIDVSPNYT TGVAEEMLGT
MLDAEVSRSA VVISSSAGVN PALPLGRRVD CSRRNLIAQL DVTLRALNTD YLDLWSVGYW
DEGTPPHEVA DTLDYAVRTG RVRYAGVRGY SGWQLAVTHA ASNHAAASAR PVVVAQNEYS
LLERRAEQEL LPATQHLGVG FFAGAPLGQG VLTAKYRSEI PHDSRAASTG RDAEVQSYLD
NRGRIIVDAL DTAAKGLGIS PAVTATTWVR DRPGVTAVIV GARTHEQLSH LLKAESVTLP
TPITQALDDV SL

> aaRXA02207 (1-759, translated) 253 residues
MRRRSRVSRL LPATALLAST ALLLSACTQG VTDSPDMGKA TPAVSPAASN PDGQVIEFGN
ITDMEVTDGD ILGVRTEDAL AIGTVSDFEA GSQVELDVDK QCGDLTATGG TFVLPCADGV
YLIDAKDPDL DELRATDKPV TVAALTSDDQ LLVGNGEDEE LTIYREGEEP ETFTVAGPNT
QLIAVPVIDR HDAVVRTWNE NTTIQDVDYP NDREGATLRV GLGVGQMAGG EDGLLVVSDE
MGGQIAIYNA DDV

> aaRXA02211 (1-453, translated) 151 residues
MVSVLLIQPR QGEAVAAAER RDFLQATGLK PQELTSRMLD TTTSRIGSLE GFDGVIVGGS
PLNATNFEYS DWQRHVHREL SLLINHPLPT IFVCYGNTFL TFFSGGQIGR THPEDSGATT
VLLTDAGKRD VLTQDLPDSF TSFTGHTENS V

> aaRXA02212 (1-498, translated) 166 residues
MIPENIDLKQ LASELGDDAV AMGEHTGNQF PTLEKDLINV VTDAKESDFG SLGVVILDET
PVMTSNLRDI AQELLIQTDL DTVVVRAPMS AAVVSDVHSR AALESGQHDL LGTTDYVLGT
ELLVQDVTES TVGNIDWGQL LIWGLVALAI AVVVAGASVR RKAISL

> aaRXA02216 (1-306, translated) 102 residues
VAPAPGHVVL ATGPTCPIQM LRANKNTWSV QFHADMDAVG MKNRMDFYSN YRFFSPEDYD
RIIAELPSVD SIYANRVLRN FVEVCEGIRV ADGAEHQLPK LN

> aaRXA02217 (1-663, translated) 221 residues
MTNKTRALLI GGHGKVALLA TPMLIDASVQ VTSMYRNPDH RSEIEALGAT TLERDVTTLS
VEDWADLLKD FDVVVWSAGN GGKNGADATY AIDRDAAIAS IDGAASLGEK APRYIMVSYI
GSSTHTIDPS ASFYPYAESK KAADEHLSST NLDYLILAPA ALTLDEVNGV EVIADTNEAA
AGRTTSRVLV AEVITELVVR DFPQTRVLPF VDGESPVSSI S

> aaRXA02218 (1-267, translated) 89 residues

MFAIMTVTGQ DHTGIIAAVS TALAELDVNI HNVSQTIMDQ WFTMILHVGF DESVLDIATV
QERMKPVEKE QGLVIRIQSE ALFNAVNEI

> aaRXA02219 (1-1386, translated) 462 residues
MDDFSASLGF TDRSSRGILD TIEMIEKYRL DIRTVTMGIS LLECARGSME ETATAVYDRV
TSQAARLVEV CEGIERELGI PIVNKRISVT PIALVTAGCS GDPVDVARAL DKAAKDVGVN
FIGGYSALVE KGGTTSDIRL IRSIPEALST TDVVCGSVNV ASSRAGINMN AVNEMGKVVK
QAAELTKDRS AIACAKLVVF ANSVGDNPFM AGAFHGIEEP DCVVSVGVSG PGVVSRALGN
LQGATLDQVA EEIKKAAFKI TRTGQLVGAM ASERLGVPFG IVDLSLAPTA EVGDSVANIL
EVMGLDQVGT HGTTAALALL NDAVKKGGMM ACSRVGGLSG SFIPVSEDKG MIDAVRTGAI
SIDKLEAMTA ICSVGLDMIA IPGDTPAETI SGMIADEAAI GVMNHKTTAV RVIPVPGTVP
GDEVDFGGLL GYAPVIPVNT VGNSEFIHRG GFIPAPVHGF RN

> aaRXA02221 (1-1362, translated) 454 residues
MFTASIPTYE LGSFSKGSYV EIKGTYFYPD TLNTLFRNSG AKDNEEFFVD VTLVPEPDNP
HSTRGHAISV RWNDLVIGHI ASDMTEKFQQ VRRVAASGYD ARVSARIWTN TNYKNERDFW
VSVKLPDPDF LVPLNDPPHD GFTLLPYGTA IQVTKESDHM DVLSEFVPPS GQGQILVSLH
IINAGVRKEW DGIEVRLDNQ RIGELTKASS EKFAPVVRHF DDLGLSTLCR ALIKGSSLAA
EVTLYGARAH ELSEEDLEPK SSSPLPRLVE YQSNPFNYQV PNRWPGEQNQ RAPKSQKSSS
SPFAAYRGPS QPSKSLTPFV AQTPAPQPSD RFIDWDSLLQ PDGTPRATPF QRGVTRGLIG
KHFSNQKSPR IDFATVGQCD AILRTFGEPT DKLYKDGRTS WPLWWALMAI VTLLVMLLNF
IPGIGPIFPL IGLIVLGHHF WTRRKLNPPF GRSK

> aaRXA02223 (1-420, translated) 140 residues
MSTYQDDRFP GPDPYAPLGE KPSFTLTSTD LENGAKLAEA QLGGTDISPQ LSWSDLPEGT
KSLAITCLDP DAPTGAGFWH WAVFNIPTTV TEIPTGAGDE TLGGIEGVVS LKGDSGKRGF
YGAQPPAGHA PHRYLFAVHA

> aaRXA02226 (1-1056, translated) 352 residues
MTENQTPSST SAPKPGPRPG PRPGPRPGAQ VAAKKAAVAT PAPIAKTSND PAKFGRVEAD
GSAYVTTSAG ERLIGSWQAG TPEEGLAHYG ARFDDLATEV ELMEQRLISH PDDATSIRTK
AEELKATLPT IAAIGDLDGV EARLSKIINN SEEANERAKE QKAKNRERAV ARKEELAVEA
ETLAENSSDW KVAGDRIRAI LDEWKSIHGI DRKTDDELWK RYSRARDSFN RRRGAHFAEL
DRTRASARKL KEELVERANA LKESTEWNDT ARAFRDLMTE WKAAGRAPRE IDDKLWAAFK
GAQDYFFDKR NAVAKERDQE FEANATAKQQ LIDEYDAQIN PEQGLDGARS KL

> aaRXA02227 (1-618, translated) 206 residues
VEDVNATLII MPGSPALVPE LAPADAAGAR LLASLRAVFD AELANDDRPI ELVGSRDEAW
FTKHAGNLRA WGAPSVQVSD GHYLPEILQR VALGGFESRV THVRDRLGSV NDNTVTVLAL
DGPTGLTTRA PSALVPGASN IDAWCRSLLS GKPGEVPSTS TLIDASLREP QLWLDLSAVA
TEASTAQLLD SDDTHGVGRY VARWTF

> aaRXA02230 (1-537, translated) 179 residues
MGEQLPFANG SRSNKLPLIV IGLCCIMLIL WLKLPGVLLA TIIGVATMSV MRMRTSTPET
ASLVTSIRLS AEDISDVQHE WQQFLTSPEA DALADRTLVR PALADPDCGD KAIEKFHYEI
SNANRFLGRL DARLQQNLVV SELETLLKVT DERALELRET WLDARKAAQK LGPNYNRES

> aaRXA02231 (1-756, translated) 252 residues
MTSDLKTIGM DFAKWQDAVE AAIASQRLEV TGEVRGGQLI QFSDDSGAQI NILAVEPFAT
FAGFNSATVA YGHVSMINDV LSLVDIIDPF GTPVATITCN LAQGPLLVDE PVQRWQQIRI
TALGIDVEVH DNADAYIRNG GETVGMLVSE GAEKIASGSG AVIPDASAEF SARVLSAEYR
TNTLTGQRFI HATVDGLFAF DVCLPDAPEL PARDSVLSGK VMLTAAVIPT EVTGCGGSGG
GCGSGSCGCG GH

> aaRXA02238 (1-285, translated) 95 residues
VTNVSNETNA TKAVFDPPVG ITAPPIDELL DKVTSKYALV IFAAKRARQI NSFYHQADEG
VFEFIGPLVT PQPGEKPLSI ALREINAGLL DHEEG

> aaRXA02244 (1-1533, translated) 511 residues
MSLEKSGGFR SRTPKAQQEP AKQKPQARKS PSKKAPARGQ GQSQGQRQGQ SSGKGGGNRK
PPAQAREVRA LGVDKPREIA FEVLDRVRTG EAYANLVLPR LLSKHNLSGR DAAFATEITY

GTLRNVGLLD EVIKAASGRE LSDIDPEVLD VLRLGAYQVM FTRVEDHAAV DTSVKMVGGL
KKFQATGFAN AILRNITRKE PEQWLKELEP AEELARVAFR TAHPRWIAQS FSQVLPADEL
EAALAADSER PVVHLVARPG EISAEELALI TGGDEGKYSP YAVYLEGGDP GDIEPVKDGL
AAVQDEGSQL IARALVEIPV EGTDAGRWLD MCAGPGGKAA LIGALARMDR ATVDAVEVSD
HRARLIEKSV RGLPVKVHVG DGRTINLTGG YDRALVDAPC SGLGALRRRP EARWRKQESD
IVELNTLQYE LLESAVNKVR SGGVIVYSTC SPDLRETRGI VDKALGALEI EELEAAEFMP
GMTDTGDEKS VQMWPHRHGT DAMFVAVLRK K

> aaRXA02254 (1-681, translated) 227 residues
VIAALTDILG TSQHALDQIA QLAGAKGRII PVCAEPLDLE AEVSGLDSDA RVMRQVRGQV
AVAATPGQVR RVRIIPDNPE PNPAAIEAIL DADLVTLGPG SWFSSVIPHI LVPGIVDALA
QTKATKTVVL NLTSEPGETA GFSAERHIHV LRQHARNLQV DQVIVDAKTL SSQTERNHVE
RAARTLGAEV SFHDVQAEDG RGRFTSIHDP AKLCAALLAS FAGARKR

> aaRXA02255 (1-936, translated) 312 residues
VAKNSVRAAE VSAILRFAGE MQAVGGKLVI EANLDSMQVG MRLQEFIQGL YNSRVDVHTV
NPTVSRKTPR YLVRIIDNAD EIARRTGLVT RSGHVVKGLA PSVVSGTISD AEAAWRGAFL
ANGSLSDPGR SSSLEVLCPG QESALALVGC ARRIGIAAKT KDSRGFDRVN VRDAEAIGAL
LTRMGAQKTR MLWEEKRIKR ESRTPQTGLA NFDDANLRRS ARAAVAAAAR VERAMKILGD
DVPEHLAEAG QLRVQHRQAS LEELGRLADP QMTKDAVAGR IRRLLTMADK RAEDLKIPDT
NSVVTEDLLE EI

> aaRXA02266 (1-513, translated) 171 residues
MTQDEHPRQA DSHFNMLLPD GNENAHQLSV ALNQVAHLLA YDADSSIHRP DGLSLASYRI
LFSLWTDGPM SPLQVTDKTG MKKSAISNLL KPLLAESLIV QVTAENDRRS KVLSLSEKGT
TYIQKTATRQ NALESEWFGT LTDIEQDLLE SLLRKLLDSN RASKVRKNRS N

> aaRXA02267 (1-873, translated) 291 residues
VQKWGLSFVE RIVIVNNVQQ FHRFFDDSAV YYPCFVPLDR AIGEHFDRQN KPMSRFIGTL
ILPLAKLEEA AQYTGDEVLR VSAVISTDGL ADLRRDFYEL PNIDIASVEI KLVGAALTNT
AWLGDVEKLI QQHRNTFVWV EIPTALVTAD IVRKLRHMGA GLKYRTGGDR EELFPSPQDL
VTVLRTAIDA ALPFKLTAGL HRALRYRDEK TGRLHFGFLN IAAAVATLRA GKGEAEALKI
LEGDDAAPLI HALQSGENWR DSFRSFSTCN VVEPLNTLID LDVLAEGDVH P

> aaRXA02271 (1-558, translated) 186 residues
MSFLNSAKTK TVALTATFVG AATLATPAIA SADIVDNALA ALPSGEISCS QAEKYWTTEA
DYNSKVAQAN ALAMFDSRGP QIQAALARVD EAANRCGLKG GTVAAQAEAT EAAPAAPAPA
PQDNTGTSQT APAPAAPAAP AATPVVNLAP AGSPTFTIEV PGVGGVQLPD LYQIVQQFLA
QFGIKI

> aaRXA02279 (1-1404, translated) 468 residues
XARATALVDF LESQTVDQLN NPDVQTYLTE AELIRDDLRS WAVIKSNGIG QHRSCSIRRG
NDEPLAIARK IIEETASHPE LRFENLEAQF SEFTILLAQS PENLDVARYQ ELRTQGNFVQ
ELALDSIFGQ HAVVQDTGNG EAILDETIGY MIGAGMRETT ARTASQFAQL YSFVGRQERS
IEMARLAFEE LQAAGLPHRE EELRLGMQLA QVEPIEAREI LEKLLLPKFE QNLTLDELET
EALLPLGATV AIHDPQAAAA ILRHARENAA GFGNFELAVQ AMTMITDVLY TQNMHEQLLE
ELNHSLPYAQ MLDDQHQAEL KLLDSIAIVQ ADLGSTEALE TLGTAMGLAE TTAQKLYVQE
SLNRAYFTFA RPEDCISGAA DASALAMQND DPSNAAAQLE QCAQYLFQLG HETDGASLLE
SAFRVEGIPT EQALYYANAL SSIYEDFGDS AKSQYWEQQA QEKQQLLE

> aaRXA02280 (1-753, translated) 251 residues
ADLAETMLGL LTLETSRGRI SIGEITTLSI TEDVSLQLAT TLDDFRQLNT IARPDTLIIN
GGYIHDSDLA RLIPVHYPPL TVSTADLRES MDLMELPPLQ DIEKAKALDA QVTESLKDFQ
IKGATRVFEP ADVPAVVIID SKAQASRDRN ETQSATTDRW ADILATVDNT LSRQTANIPQ
DQGLSALCLN WNNSLVRKLA STDDTAVVSR TVRLLYVQAL LSSKRPLRVK ERALLNDSLA
DLVSLSLSSD I

> aaRXA02285 (1-729, translated) 243 residues
LVLDERWVGV GLVDKWDEGG VEKRLFAAVL CVVGAGRGHV DERGEVRYGG AEAALLSLEG
RVVGVEVEDG GHEVFARGVF LEAAHEVRNG HVEFLWAHGW YVKQQLTDVN ADGARLIGRH
ALQHFELHTV RYPTLHREQM CECYVEKVVA GNAQAQALHV FFAHRPIEDA LVIGIGGLFG

RFCGNWPAGD LRVDVLHRQI STLDQANLNA RPACVDALAA ELRQVLDCTE GIGKVRLQHN
SGF

> aaRXA02286 (1-549, translated) 183 residues
MKNAKLFLAL ISAPLILAGC SSTDTGTAES TISSETASAV DATTSTSSST ATSAVIDDDP
VFDIIDIVLA QYPDRIITDI DREDSSDQYE VDVVVGQEVL ELDVTTSGQI HTDDRDNDDD
DDIREAHAAT VTAAQAIGLA LDQYPDGIID SVELDEDDGQ LKWKIDLDDT SGNDLADVEI
AAV

> aaRXA02287 (1-552, translated) 184 residues
VYSISETIAR TLMPRTDHVF DLMGNGNAWF VDALERLGRG IITVRPTVET VAAADTYHRV
TRRPAVATTT YGAGFTNTMT TLADVALSRI PLLLVVGTAP SAGPRCFDID RQGLARAVGV
ETFTVHADDV AAVTLQAWNN TPENTHVILE IPYDLAAATA TDPTVTTYLL RPGFQKLPMS
PTLS

> aaRXA02294 (1-375, translated) 125 residues
MAKTKLESIS ERNSDDPLSY PDLTLAPIST TVTVVVAEDT PNDNFSELLL GAAESTRLLG
LDELHIIAPS VHLPALAVAA ADIAHHLPEK FQFCEAETCT HLHPDDDTYL TAESVAQLGT
KLKSA

> aaRXA02295 (1-780, translated) 260 residues
MGLELAASGW GILIAGAAVA GWIDAVIGGG GLVLIPLILA VMPQLAPVTA LASNKLAAVT
GTASAAFTLV RRVKPDKKLL ALYVLVAAVC SGAGALAASL IDKQIMRPLI IVLMLVVGLI
VVFKPNFGTG ESKALPTGWK RWAAIVAVGL IAAYDGIFGP GTGMFLIMAF TALLSQNFLS
SAAMAKVVNT ATNLGALIVF IIGGHMWWTL GLVLAVANVA GAQLGARTVL GGGTRLIRYA
LLTLVVVMSV YLTWQQIQGM

> aaRXA02296 (1-489, translated) 163 residues
MRNQTIAAVA ALVLLTAATP AIAATPATAG NGLYSIDMGD EQKLTCVLFD EPSTEAHVVA
SCAATFPVTW KLLDGAHEQA AKLEITQAQD GELSVTASKQ PLITTMIAPT SITKPITVNR
LVVVPGENEV RFYATDPDVL PVLITPDSYE VLTDSAAKVK ATL

> aaRXA02297 (1-1137, translated) 379 residues
LSDKEPDPHE QIPEKPSRKV IALRWCIVAP LSLAVGWLFT MWGVPAAWIL GAILVAGVCA
LTTGQDLPMA KGVHVFGRSI VAMLAALPLI SSSGSELVRF LIPGLVISFF TIAVGIVGGL
LLARSRPEIL PETGVLSMLA GGASVMPILA RELGADFRYV ALTQYLRLLV VSMTLPLVTH
FFVPGGADLG SPPEKWLDVL SLGEFGTSIS VLSLLVLFGI VLAGEPLGRL LRLPAPAVMG
PLILTVLVSF VIPDDLSLQP PTVFKIIAFM AIGWMCGGPL NMTALKVFSK QLPATFLFIF
ALLAVCAGAA GLLTWWLDIS FFEAYLATSP GALETVLALS SEGSAGPVVV TIQIIRLLAI
LTIAGLIPTL LRRILRRDR

> aaRXA02298 (1-1659, translated) 553 residues
MTLQSSDKRS PSLLDASSEV FVHDLAALSP TDATAWGISG FEGDLQDFSP DYWNAIAERN
RDMVADVDAF DDGTDDNDDE EDFDDVDRVT ADVLRDRVCL DLALHHQGET LANLNNIDSP
VQTIRDTFLI MPRETDDDVE NLRERLSRVP DALHGYCESL AEAASQGHVA AVRQVEEVVS
QCEDLADEDS VLQHLGLDEN DPVVVEAQEA FARVAGWLAE QLAPHAPHVD AVGRDRYEMF
SHLHVGEFVD LDEAYQWSLE QLRDIDAQQL QVAQQLYGPG TTIREAMKKL NADERYLIRG
TDALQEWMQK TADQAIADLD GVSFNIPEQA RQVECLIDPA GTGGIFYTPP SDDFSRPGRM
WWSVPKTQEV FHTWQELTTV FHEGVPGHHL QISQTLVEKD LNLWRRVACW NSGHGEGWAL
YAESLMKELG YHEDPGNLMG YLDAQRLRAA RVAIDIGIHL NKRNPECTGL WDASYARSFL
RENTSMNEDA LYFELNRYLG WPGQAASYAI GQRLWLNLRD EAISQGQTLA QFHSKALSYG
SIPMGILRDQ VLN

> aaRXA02300 (1-333, translated) 111 residues
MKTYAVLIAV AGLALAGCSS SAPGIWRATE PADAYLEIAD DGTLSGTDGC NRLFGGWEKD
GSTITFGAIG MTEMYCEGVN DWLSQMHTAT VTDATMTIFN EAGSNIGELK R

> aaRXA02301 (1-717, translated) 239 residues
MDLALAQVDS TVSGLYDALD LIGVLLNGII GGTIARQRGY DIIGFLFLAL FSALGGGMIR
DMLIQQGTVA AIDNQIYLAL AFSGALIAMA VNFKGRVWEL FKVHGDAIVL GVWAVTGSVK
AMNAGVAPLP SIFMGVLTAV GGGMVRDVAT GQTPTIFGGG TLYAVPATLS ATSMVIFHSF

DQVILGMIIS PFLGIALAVT AYWCGWVIPV NTDFAPVNLT VSQLRAMLSK AERKDKDQK

> aaRXA02302 (1-765, translated) 255 residues
VATNRTSSAG VITSVLASAL FGAIFFISGA IEAKAETLVA WRVLLTAACY LLALLHPAGR
KVFKEFWDTL RSQPRQILYF IFLVVLITLQ LWLFSWSPKS HALDASLGYL LLPIFLVIVG
RFFFADYITR LQWIAVGIAL IAVTLKFVIS AQLSWVTFAI AAGYALYFAL RKYSGLNNAF
AYGAEVLALS PLAFFMLATV EDPLSNAMLS MVILAGLAGA LAMALYLAAS TLLSMPMFGL
LSYGEPILLF VAALL

> aaRXA02303 (1-720, translated) 240 residues
DPDPADRYIA HLPDRTTHTA MIMLGSGLDH SMPGVAFIGG VSVDDVPEVG GAIFHPSNPT
GRWAVSFHSG GWWRGSGDAL EFQWRPEVAA AAELSGTTIL DLDYPLAPGH NLHDMNEVVG
KAVGYARHHN PVSITGWGYS SGAALAAINA SLFDALVLTF PDLGSVEKLP AEIRGDAVVP
AAAAWPTTFV QIAAQDEIAE RPGELGDATV KEYVSRHRIS TPKVAREKIT DVAEFLKTVC

> aaRXA02304 (1-891, translated) 297 residues
MKTPRLLKIL SAMVAVTGLL IPTVVPMAAA DAAELSDNVP DRTQIAIINP DGSVQESDNA
EESRPALSLA KLYLGYYVLA QGAEEDIELV PDMIRYSDDF TADYLESEYP EAIPEVIDAF
DLEDTEWAGF WGNATTSAVD IATFVAALID DPTAQPLLDA MSDTAEYAAD GYAQNFGTFT
LSDVTGTKFG WSDSLDVHSS VSFGPGFVIA ANTYGDAETL TEDVQDSVSS LYPEEVTTAI
EEQVDQLCEC AAETTHLGMH TGAELKAQLE GTIYGKTLSF LPNSAPAPAF IYNLLAH

> aaRXA02307 (1-390, translated) 130 residues
MSGTAIMYDT TVVPSKKEIA QAWTGYVDLQ GSYRLVDTVD GEVGVEVLIS KDREGRLLQI
PFSYRSAEIN PEQTLSTLEH GVLGKRWVTN ALGDPVAVRE FIRTILTGDD GAARSDGVKG
YLDIKGSGDA

> aaRXA02308 (1-429, translated) 143 residues
MSETQSNSVS AVMPAQLPPG PAERTVYSYG VRAGDQVHIL RMEAFDSDAN IVGERDIEAH
AEQVFKNLQA VIHEAGGTIN NIVSTTTYLA DVTDAPVVNA ARSRYFTGEV LPTHTVIGVA
ALARPQFLVE ISAVAYLGDL SKD

> aaRXA02314 (1-441, translated) 147 residues
MEWYQVRRRA RQLLIVLFIA AMLGAASMVI GPFLNDRTIE GNSGRALAQV TNVGSYRTTV
DFQDENGIYH SPATGLLFPT GLGEGQRVWV NYAKSDPDLV KVEGRKWTLS IIPALSVAAV
ATATWSVLWL GVGRFGRRSD DANETTV

> aaRXA02324 (1-1086, translated) 362 residues
MATTTPVTVL SGFLGSGKTT LLNQILHHRG SRKIAVIVND FSEINIDAAL IASEGHLTRG
EDRFVELTNG CICCTLREDL VDSVGELASS DRFDHIVIES TGISEPMPVA ATFEWQWDDG
TRLADKAPID TMVTLVDATQ FIDLIRKNTS LTEADMGATE DDERTIADLL TDQIEFADRI
YITKSDLVDR TVLEQTRALI ASMSPRARID LLIDGLNDGS PITDDILGAF LYDEATARAY
EGYTEELENP HTPETEEYGI SSVVFRSDRP FNKDRLLQVL RSTTGLVRSK GYCWIADHLN
IVQVWHQAGP NLSIRPAAYW ANSEITPGTE LVLIGIHIDG PTLLALLQGA TLTDAEVAAL
VL

> aaRXA02325 (1-870, translated) 290 residues
MMDHAHDSCS PTLRRDLEVT GQLQPEKAVD LAAPHEGKVA NITKVTSSNM EHTITQASKA
KEVVVLIGHS LLPTFQDLEK DILHFQAGNK GRFSVAIVDP DRSADVVARF RPKQIPVAYV
VKDGASIAEF NSLNKEPVAQ WLDHFVSRET IPNEKEGDVD KQIDPRLWRA AELVNAGDFR
AALALYEQLP QDATVKRAHA AVSVLARMSV ADRGEDPIEK SRRDPDDVNK ALAAADMYVL
MNQPDTALAH LAALLPKPEA ARRIVELLNL FDPLDLVALE IRAQVGNAMS

> aaRXA02331 (1-366, translated) 122 residues
MELNGGRFYA RKLTSDNRID DVPALSLILA DAAQFIADAT TAWHEDTEYT WAICEQTSVE
LLALARLDPK QRTLEVVPAG DPATQLPNDP VLAPKTIGDA VAEGRDTITR WAQGYLEISL
TD

> aaRXA02336 (1-180, translated) 60 residues
MKDTTEINWQ GYADGTAIRE AVIHSIEREV SAGEQPTPND LKFLGLFQHR AGYVGSLITG

> aaRXA02337 (1-924, translated) 308 residues
MSKLYAGARI NALRRTHQLT QSALADKLDL STSYLNQLEN DGRPLTATVL LQLMKVFDVE
ASYFSPDRGT ATATRLAETL AMNQGPTMSM DDLLDFADRF PQLAQHIIQP AEVDPTHSSA
HDFVRDYFAT HKNYIDSLDR LGEELATAIG QPGLRVTRLA QLLDAEYNIT VRFRAPDITG
RRHFDPQSRQ ILLRQDLSEA QQCFQLAEEL TFLAHAELLD TLTTDQPDLP SEAAIRLAKV
GLSQYFAAAV VMPYTRFLEF AQDKHYDIEL ISEAFGVSFE SACHRLSTLQ RSGASGVPFF
FVRSDRAG

> aaRXA02338 (1-480, translated) 160 residues
MKKSIVVFEV EGGSDKHFDG HRKDTMPIVN SINDAGWQAE VVYYRPEWTE GLFEYVSENF
DGYISRVNPG NIPGGERGYF DLLTRLSEAG LVGMSTPEEM MAYGAKDALV KLSQTDLVPS
DTEAYYDVET FHKVFPTSLS FGEARAQAKT WLHRLPHLAR

> aaRXA02339 (1-492, translated) 164 residues
PTDNLFSYPA QRYDLLTLAF EVRIGDMVQI NDMLAPPPVK LPEDPALGAD PTLTSTAIAH
PDSPLVWAYR AENLIKSASN DEEKIQAYAF ARTGYHRSLD RLRANGWKGW GPVPFSHEPN
QGVLRAIASL ALAAKLIGED NEYDRCRQML SDADPESVAV LLDK

> aaRXA02340 (1-639, translated) 213 residues
ERVLKQNRGS TGSGIWRVQL VDKELAASIE PGTALPLDTE IKCTEAVDNH TEVRKLGEFM
DFCDQYIIGD NGMLVDMRFM PRIVEGEIRI LLVGPHPVFV VHKKPAEGGD NFSATLFSGA
KYTYDKPEQW QELIDLFADA RPVIAEKLGG DNIPLIWTAD FMLGDVVDGK DTYVLGEINC
SCVGFTSELD MGIQQLVASE AIKRIEEFAQ LTV

> aaRXA02341 (1-411, translated) 137 residues
MGNSLEKHIA EGDRIHVDLT SPLSAMLFPI FELIVITGIC WMGIGFLDQL PGIDGTNPAD
SFPEGTRNLL VGVWAVLAAW RFGLPLIRQR RLRVILSDRK LLVRRAGLRT GFDSIPLSYI
QRVQRRRNTL VLGVGGH

> aaRXA02347 (1-321, translated) 107 residues
MDELGVGWCQ CEKDSITGKA PHPVNKPLVT KSIIRALGDV PDVMSNQDIS LVVVDLWKFD
TITPPIAESL MRSVKAVNGE MHPQYPTATA MAAIKHFSNT FDGQINA

> aaRXA02349 (1-390, translated) 130 residues
MSTAYFIAHG NDTYRPTEHS SGAWRDDELH LAPVAGLVIH HMERWRREVV GDALVFSRFS
LEVLGQIARD DVTLRTEIVR PGRTIELIET VAEINGRVTI RARAWLLKTS DLAHISGDTF
EALPSMTELA

> aaRXA02352 (1-555, translated) 185 residues
IYNTSSTLNG FIADKDNSLQ WLFDVPGSDG ASEDFGNFLS KAGTIVMGST TYEWLLKDLD
FISDPHKWTD VYGDRPTWVF SSRNLETPEG KPVKVVNGDV ADVLPAILEE SPENTDIWIV
GGGDLAGQFF DAGALDRIIL TMAPVFLDEG QPAMPRRIES NRLRTVNVRE VGQFTEITLE
TIKGA

> aaRXA02356 (1-996, translated) 332 residues
MATVTFDKVT IRYPGAERAT VHELDLDIAD GEFLVLVGPS GCGKSTTLRA LAGLEGVESG
VIKIDGKDVT GQEPADRDIA MVFQNYALYP HMTVAKNMGF ALKLAKLPQA QIDAKVNEAA
EILGLTEFLD RKPKDLSGGQ RQRVAMGRAL VRDPKVFLMD EPLSNLDAKL RVQTRAEVAA
LQRRLGTTTV YVTHDQVEAM TMGDRVAVLK DGLLQQVAPP RELYDAPVNE FVAGFIGSPS
MNLFPANGHK MGVRPEKMLV NETPEGFTSI DAVVDIVEEL GSESYVYATW EGHRLVARWV
EGPVPAPGTP VTFSYDAAQA HHFDLESGER IA

> aaRXA02358 (1-291, translated) 97 residues
MVSYSVHGAL DIDGSLKKLT LDFLNKLATN PASPGLHIEP IKNSIDSRVR TGRVNDQFRA
VLFELHDEFD HHFVVGGFIP MMMPSPRQEK SALKSTL

> aaRXA02360 (1-2433, translated) 811 residues
MRGDVQKITK VYDGKHRTLE IPVYQRNYDW TEKQCSRLFD DLSEVVKENH RQHFFGAVVG
KPQGSWTWVV IDGQQRLTTI SLFMLALVHS LRASEVEEGE FNAGYNIDLA TLIEDDYLRS
GNEGNLKFKL KPVKNDNEAY QKLFGPESEF IESSNLTANY RYFRNVLKAT DLTAAQLWEA
IEKLRVMYLD LEEFDDPQRI FESLNSTGLE LSEADKVRNL VLMDQELKTQ EKLYEQRWNP

IEVCVKFDTD NFIRWYLTLK TARTPRKQDV YEEFKKFIRN SKLPVEFILD DMYEYAKLYR
DLLGATTGFI AADRCLKRFV PVMGDVVLPF LLPVLKDAKD GIITESDFLG VLKVLESYLF
RRFAVGVASN ALSKIFSTAY SDIKKFWTPG QSYSSLLAYI LKRRDGSGRF PSDSEFRENF
ATKNFWNIHN ENRRYLFDCL ENADSNDVRD IQTSLDEGSL SIEHIMPRSL NDQWRAELGP
EYARIHETWI NRIGNLTITG YNSAYSNSSY ERKRTMENGF LVSPYRINNF IKKQKHWSEE
QLIERTELLT QAALDYWPLP KETFQPPQAV LPTESLDSDL SFRGREIVAF EYEDYKETVT
SWADMLQSVL KVLNQSFRQE LIALTNEEIC LATSNNSNSS LREIDHGLFV DTGSSTSVKI
GFLRRVFTQL GLEQEALVFT LRPLANDVEP RDDELEVEVE KKYSDLTKFI PQLEEAENLE
GADTEVIPLL SKLKEQLTAF SPENPQAALG GLPVPEFLKQ NVIEQLSAEH ILAVLTQHFN
IASMMGDDYL LEELRSGRLR ELLQRLEELD S

> aaRXA02361 (1-651, translated) 217 residues
MELLSHLLAL DPASPRLTVY NESTGARLDF SAITLDNWAS KVGNMLLEEL DLEEGSLITI
DLPVSWQAAM IMLGALATSV EVSFDDPEAD AIFTSLDRFS HYKGHSDVLI VSEDPFGRGV
VEGGGELPNG AIDFGPTVRF YGDQFFQPTR TLPEIIQHSD VPVGARVLAT GWSDIESFNH
QVLEPLAVGG SAVIVTGLAD IERLNQIATN EKTTHRI

> aaRXA02362 (1-3699, translated) 1233 residues
VTISRRLKQE RSFADDLQDL KTLNDQLRFT NAKLQARISG IGNDGKKITR PTPLLALDFQ
LTVEEYETII AILVEAVGGN QSKPAILKDL FIEYPLVFLA ALSGTAMLDA QEGFWPAFWK
RTQVSVPEHV YDAIRKELVN SIRKNGLETF SLADLNRREY VGLIQLHSGL SAKDMLALVK
FIDHTRAENQ GWDSGEDFAS YAKSVFSSGD NLLTTESLKQ LVTHIPARSV DFIARVYELT
NWYRDLKDLN EVEAFVGTHG LPELSFKFLL ECLSGEAEQI AEKTKAAPAS LENLEPPHLY
LDPQSFELSL VFPAISKTAA LQIPAPEWTV IYDGNSIKVR PEQDWSYGGF AEYRLPLDKP
LSSLRVITPT EKSLILIEGF GHKNPIMFFK NNGQPYANQE MLSGNAVTAI VPAAAIIRAR
MRASKTFNYQ DLGPLSGWNK WVIRSIPLKR AESITVSHGG FRKELPVRRK VDVQWITEDL
TIENLQGLDH EPVFHTSPRI EFPTSGSNWV IQYSQILPDG SLIEMEDYPV EPENFGYELD
LFEESDDPWV GQFLVTLLKD EKVYETRKFN LAEGLDLSLT FSGGGPENRF RYPSINQGQT
GLTKTFARFS SNSEKHIRFP DEIIGLDAFT SQKAFNIASG DFPEDYNLDV FITPPQLHYQ
VPVTHSQTKW ESTKTTLDFN DFADGNLQIR FPNEVYDPNL KIIKMVAYKK PESSEPKYLS
KIGSSKVWSI PMDRIKELMD DDAQFLLIAE WFAESKDQHR EKIISEAKRT GKISNAALKS
ARPQPQASSH IATIEKKPLL AAAEIKLSTV ELELGRHTSK RLEGWAWSAL NPLDPPIKVD
FQGTSGSLPD THFVVGPLIV EVREKEFLSQ WQPKVPSVKA VVANDPSFEL DPQFDPFLTH
RWMFAPRSGK VLLPQEIRTV WDARFNMRHV LAQRENLHVK SIQDFDDATS TYLTSDPRVA
LDELDKSSIP SNSHFESFIR SGLAELSFEV DDTAGDIHRV PWIGLIQEMN DLRILQIQGY
ETEERAIERR NSQSYIREIG GSELWNILKG NSEGLSLAQK CAPQATEINV IRNSGLEAMR
NGLGADQFSA EFISADSRLR AQLEWLENRR ELNDLGQLPT LFDFAEKYEY LIDHLGDDRI
KVTARELSTL ASEHRRGNAE NWLYAPYVSF IYSLLNRMIA HEVIRPIAQI NYSRHDWANA
ARLIPRLTGF DLVSAEAKVL SAINNNNIIP TAI

> aaRXA02367 (1-609, translated) 203 residues
MSNAEINPVE YEINNHAPGT ALNPQCEDGA NVEIITSREV PLGGPRAMTV HRTLPQRQRS
LIGAWCFVDH YGPDDVSLTG GMDMASHPHT GLQTVTWLFE GEVTHHDSGG NHAVVLPGEV
NLMTAGAGIC HTEVSATSTT ILHGLQLWTV LPDKDREGPR RFDHYAPEEI TLEGGSARVF
LGSLFGQTSP VHTFTGSSCF RVH

> aaRXA02368 (1-675, translated) 225 residues
MIVLAGATRV TYEVEPWLAI PLFILAFASI LIPFPISKTK GLRDIDAWKI HTTQGDKKRA
IRQLIIPATA LAIDIIGLPT LFNAPPLASA ALFGGVYGAS LAWAAYRADQ LPRIRTKERL
AELSQNASLD DVRSDDLDVL EQPESRELVR CLLAHGAMDG TRVMARQVAR VLDTEVDEVH
QVARSLEQHG LVSRSTIMPG GDPGKVFIEV SLKGISAIKA LESGR

> aaRXA02374 (1-621, translated) 207 residues
MSYDFVLFET DGDPGSARIS KTPLTERIDF ATPSTTPVLE SLSAGLAETV PDTVKLEEDA
IHLSGDRCLY VVTNYNSAEE AAEWLTAIAF DYGLGLADMN ADTILLFGDE DSDAVVQIDD
WFSPAFSAYG LPHLLVEVMR LKDSKTPYLR VTLAADDSKF IQTLYETDNK QWLVETSSST
GTDETHVKTI NDVLERIETW FNQETAV

> aaRXA02381 (1-1023, translated) 341 residues
MSVTNFRRFL AGIAVIAACV AATPTAQAQS SGSSGSSGSS AGSSGLWDLL FPESHESFIE
RLLDPLDDSH ISIHPDLTPD LYEEVFDPPQ IGECPAVVAV VARGSEQNLQ IRPARYSEES

PWTSNGFEEK NFRSFFGRME KHYRESTGES LMKDVYVMGL NNIEYPASLP LSSEGSSAIE
LGTSISSGRD NVISAIDRFE SATGCTPKYL LAGYSQGVLI VDGYEEELIA RDQYLGTLHI
ANPAQQVDDP TLVGHEVTTG GLASSVEPVE DNPFKVSYCL PGDIVCDRSF EQFSAAGSSI
AAAQLSTGNI RPGRVHVQYF VTTQPWDEQI FDEVASWIEA A

> aaRXA02383 (1-603, translated) 201 residues
MPVRVIVDSS ACLPTHVAED LDITVINLHV MNNGEERSTS GLSSLELAAS YARQLERGGD
DGVLALHISK ELSSTWSAAV TAAAVFDDDS VRVVDTSSLG MAVGAAAMAA ARMAKDGASL
QECYDIAVDT LKRSETWIYL HRIDEIWKSG RISTATAMVS TALATRPIMR FNGGRMEIAA
KTRTQSKAFA KLVELAQIRA D

> aaRXA02387 (1-678, translated) 226 residues
VWWCLPTWIK AGQDAVDLAL SAAVDPSPGT YLIVMHSGGG RSKSMVKKLE KVAVVHDAAK
LKDRDRPGWV KQEFKNHKVQ VTPDVIHALL EGVGSDLREL ASAVSQLVED TQGNVTVEKV
RAYYVGVAEV SGFDIADSAC AGQMSKAVAS TRRALQLGTS PVALAAALSM KVGQIARLYS
TRGRINGFEL AKELGMPPFV VEKTAKVARN WSGDAVSEAV ILMADL

> aaRXA02390 (1-669, translated) 223 residues
VEWTAFGTLI LLNLVGSLSP GPDTFFLLRL ATRSRAHAIA GVAGIVTGLT VWVTLTVVGA
AALLTTYPSI LGIIQLVGGT YLSFIGYKLL RSASRELIDA RQFRFNADAR PIPDAVEALG
TRTQVYRQGL ATNLSNPKVV MYFAAILAPL MPAHPSPVLA FSIIVAILVQ TFVTFSAVCL
IVSTERVRKA MLRAGPWFDL LAGVVFLVVG VTLLYEGLTG LLG

> aaRXA02393 (1-282, translated) 94 residues
MAESLVIINI DEKSAKLLID AARHHIPTRF TGPNARPLSV IPIEDPRSRP TLHPDHGWMM
PLSPPVVDEL LGGGLKIGET ELESTNIAFI VDAS

> aaRXA02395 (1-732, translated) 244 residues
LITMAIPSFI LILAFTIFGG TAITMNRENV DGFDGSSSKE QVLFDMFSNL PLYSITPFIL
IFVLAVFFVT SADSASVVMG TMSSQGNPAP NKLIVVFWGL CMMGIAVVML LTGGESALTG
LQNLTILIAI PFALVLIVMA IAFIKDLSTD PAAIRQRYAK AAISNAVVRG LEEHGDDFEL
SIEPAEEGRG AGATFDSTAD HITDWYQRTD EEGNDVDYDF TTGKWADGWT PESTEEGEVD
AKKD

> aaRXA02396 (1-279, translated) 93 residues
MATTASKIST IRPAQQDALW SVREDLHARF DGLVDPVQVD AILDHVASNR EAKITVFSKI
FIAREATAAL QQIAGNVNAD LLDFIALNRG MAA

> aaRXA02398 (1-1530, translated) 510 residues
VVEVKKRNLL VAPLTASLVF CNLAVAANAV EVEAESPVVI NEVESNSDPV GDWVELANTD
NNNSIDISGW SLVDDKEDLE NALVLPEGTE IESGGYFVIY TDSADYVPTN NTFGGQEYFG
LGKDDTVTLR NAEGEVVATY SWKDLGEHAE NTYGRIPDMT GDFANTGVPT PGAKNVAAEG
SGEEEGVVAN AQLPFHNVEI TPIHLGGDFT GEDMSGVDFD ANSTAWIANN DIGKIYSLAH
DIANNTYKLT GEWETGYPEG GGEPDAEGIV AATNGDIYLS TERNNADKNV SRPSILRFAT
PTGKTGVQNA VQEWDLSEFV GDIQPNGGLE AIAQLEDNIF VVGVEETGDV IVVDLSADQP
VLVQRYESSF DGVMSLDYNA ATKQLSVVCD EACDGLSEIL EWDGEKLYKS DDKIYERPAN
LGNWANEGFG TYTSELKCEN GNTVSVTSYL WADDAATNEG TSLNSAQVIN GDCGDVNIPG
ESSSDNSSSD FATGSIAGAF ATAVLAVVGI

> aaRXA02403 (1-765, translated) 255 residues
MTTFITSGGL EISPAGAHIV HAESPEGELL FVSSASQYGE GNAIRGGVPI IAPWFGGLLG
LDPAHGWAKR SAWDVTEHDG QIHAEYGRDG LLLDIRANST KNGFEITLRA YNDTDEARTV
QLAFHPYFKV DDVEKIEVRG LDGVDILNRL NNEVETQDGP VTFDGEFDRI ALGTPVVRIF
DTDRIITIEG DGHDSTVVWN PGESRASTVA DIGEGEWRDF VCVEPALLGA DQKGVRVAPG
QSVTVGMQVS VEKRA

> aaRXA02406 (1-549, translated) 183 residues
METLAAQART LLEKWGVAPT HASFVESIAK AIPILSILLT LIVTVNGISS GNPVQPPALE
QVRTDVVNKI NYERNLKGLV SISPELELHT AAQTIAQRNA DSDSEEKVPD PEGTLVVLQQ
NLPYANANAD TIVDRFLNSP DHVKLLLAND YEAIGVGVAY KGDHAWIVVE FTVAPADSVE
STE

> aaRXA02407 (1-306, translated) 102 residues
MNRQNQLHYP QEVKAVESVE SSLNMSSPSA PLATPDVELD VHTLSSENLP WLCIVWDDPV
NLMSYVTYVF QTVLGFSKKR ATELMMQVHT EGKAVVSSGE KD

> aaRXA02408 (1-828, translated) 276 residues
MLIDVAGFLL GHVTKGDTGC SVVIAPNGAF AGVDVRGGGP GTRETDLLEP HNSVQQAHAV
VLCGGSAFGL AAADGVMTAL ENRGIGFPVR PEGPIVPIVP GAVIFDLLVG DPKNRPTAAD
GEQAVENAFA GTHNGSGSVG AGTGATAGRL RGGFGQSSRR VGKYTIAAGV VANPVGEVVD
LTTGALFGRP EVMGVGVDKL KSAAETLNTT IGVVATDAPV TKAQAKRLAL VAHDGLARAV
RPSHSPMDGD TFFAMSSGDG SGVTPVELGE LSAHAA

> aaRXA02409 (1-414, translated) 138 residues
RAQSVPKDPL AEMTGMTSGH KEAPTDPALA RLLPDFQHEG DEEYDGDNSF LRSLHEGDIT
RAKLENLRVI NDALGPDGNV AVTASEEEAH AWLAALNDIR LYVASGDVRG GEAAEEDREN
LVQWLAYNQE SLLEAMMN

> aaRXA02412 (1-480, translated) 160 residues
VAIIVIAFVL LFNSLVAPNN SSSPVASPST SESVEQTISE SPESPSATED QPPSSATETP
RNRPAQPSLP AGASPANDAA ATQTDAGNLN NVYTGSASTS AGFAQAVRDA FVNHYLDTNE
LSGRVTATSP VTGGNYTMNC EDNGEYVTCT GGNNAVVYIS

> aaRXA02417 (1-2124, translated) 708 residues
MDMNSSDRLA LRTALEKLSA SATAMASASN DIKDLVARLD AQEMSLIDAN PAPTPAPTAP
PEAQLEPQPL VYATASTAPA LADVSGTNRI PRFVRHRALD PASEGWPLGV EKQKVQAPAY
PHPVRPARPA KPPMTSEEKI MRGVAIGGGV ITVAGVILLV SVAIQRGWLG PLGRVIGAYL
LAVLLLGAAH YVRKRGTRVE ALVALTVTSQ IAFLATTSAI IFILEWWPPG LGSLVALIGN
IGFLIVGRLW SLSKTEKSAA EGHTVFVGAI AVSGFSAILF ALSADAWWPI FSIVAALLLS
YRISTNIIRA SMAAFAVILQ FVLSASWQTM EWPATIVGTI TAVLLVALTL WDPFKITATD
SHDIALEEYW RSFETNPVST WVGAVSPVLI VFITTSMFIA VDWPWLALIP ACAVAALGIF
ALRSSDTASI ENQRMSRLIA VVGLALIAET FVQLFYGDLP TNPLLVMVFL IAGAALFMWL
RMLPPQRQLG VVPWVAWLIA AVAMTGVLLR NVVSISPLWL TDTQALIQAL LILVFIAATI
QVRRSFYGHK LWLQILVGLT LLTLSAISIV TITTFIGRLI AGNAGMMLGF LIGHATVSIL
WMVIAAALML NRKLLDAPGA LWTGVGLAVA GTFKLVFFDL VALSGVPRAI AFLLSGIALL
TIAAMRGRRT SENKADVARP QVARHGATSH KNEEPSHESP SSSPTTTL

> aaRXA02421 (1-810, translated) 270 residues
MTLLLKPILQ AAGINPEDAL AMRHVFISIH EDTNSNGITR ESKDEEILAY TASQSSDPRR
FPLNPPRFWM VFIREGGSQA RLWKVVENHG EVTNDGVRRV FNLTEIELMD DLAGRLVIRW
NSPRKWWIKG TTAALYTVDT IADAEPIPFP GFDNLVLSYP FLQEVMREPA YASWRTALGA
VKGIYLITDT RTGRHYVGKA EGLENIRQRW NSYATNGHGG NVKLKQLKPD TFRFSLLRVF
DPATPTSIIN AAESHFKIAL DTIKHGLNAN

> aaRXA02423 (1-216, translated) 72 residues
MIRKLARPML ASVYVADGAE TVLNTSAHVE GTQVVLDRIR YVLPRKYAKR ISRDPELVTR
VIGGTKVCAG SC

> aaRXA02425 (1-630, translated) 210 residues
PGAFDELTSV WGEKGGSWAA VIGFFGGIAL IAIIDRLVPT AINPHEPSTV GGAVEGFERR
NRMMKMGVLT ALAIAIHNFP EGFATFLAGL SDPMIAIPVA VAIAIHNIPE GIAVPVPLRE
ATGSRRKALG WATLSGLAEP AGALIGFLLL MPFIGPEALG LCFAAVAGVM VFISVDELLP
TAISSGKHHT AIYGLIAGMA VMAISLLLFI

> aaRXA02427 (1-387, translated) 129 residues
VDFELGKRCP CGTGLTYGEC CYRFHSGEWV APTAEALMRS RFTAFAVGNS QYLLDTWDPE
TRPSELGLDM GIDFYRLDIL ETTGGGPFDS TGTVKFQAFY KGLASGVQEE DSTFRKVNGA
WVYSTGDVD

> aaRXA02428 (1-1134, translated) 378 residues
MAATLDLPDT DPIAYAMFAH CFTGSRFTPA AARVSKTLAE SGVACLRFDF PGLSQSEGDF
SKTTFNSNVD DIVAASQWLT EHYSAPQLLI GHSLGGAASL KAATKISCLK AVATIGAPFD

PAHAVLHFAD RICDVDDQGA VTLQLGGRDV TISREFLEDL AEVNPEDHLR RLRKPLLLLH
SPTDQTVGVD NAQLIFRVTR YPKSLMTLDK ADHLLTKDGT AQRAARIIAN WVEPYLVPEN
VCEDLPEFVA EASTIKASKY GAAIRTGGHN FITDRDKSQG GKNLGFTPTS LLVSALAAAN
SQTIKQAAID NRIKGLDDVK VTISQEQSAD HGQIKLRRKI SLIGNLSDAD SASLRAASNS
CSITQLLAQG IVIDDEVN

> aaRXA02430 (1-186, translated) 62 residues
MSPVSRRHAE FRINEGEFEV VDVGSLNGTY VNREPRNAQV MQTGDEIQIG KFRLVFLAGP
AE

> aaRXA02433 (1-600, translated) 200 residues
VKLFKATAVT FTVAAALALS ACSSSDDSSS ESSTSSSTSS AASDAATQYP TAEELNAILA
VATDPEAPIE EKVKTVQGSE NAPELFETMT QAKVESGAEF QVVGSVLPGY DPTSEVLTTV
MFQLPDRAEQ EAEGVEFVNT DGNWQLSQDW ACILITNTVA PEQVPAMCVG TDASSAGIEE
APAEEGAVVE EAPVEEVPVQ

> aaRXA02437 (1-810, translated) 270 residues
MSTIGNLKLV VDGARKAYGT YADYRDRKVS ETYDALSQAA GEYAPKAEQA VETARESAKE
FYTESRDKAG NVTKAARARL EKALAEADKQ GTSALKDARE SGKKLNRKAR RKADKAAKAA
RKATEKKESH WVRNLSLAAL ATSGIVAVAY AFLNKTKKET PGTQPPRVEV QLKKAVEQDE
PEVVAEAAVE EPELVYSTES PETTEAPAEA TETPAETTEE EAKTEAELEA ELEAEADAEQ
EAAEEAEAEA IQAEFDKKNA PQRTQSEKKK

> aaRXA02443 (1-954, translated) 318 residues
VILKDIFNNG ELFGASSAKN FRKLLAVPAV AASLAFGITA CSAVDDTPDI VVTTNILGDV
VSHIVGDSAD VQVLMKPNAD PHSFGVSAQD AAAMEHADLI VANGLGLEEG LQSNVDNAKS
QGVPVLEVGE HIDVIDYSPG VPDPHFWTDP ARMIAATEVI EAELIKELDP SLTESITQSA
QHYREELVAL DEEVTELLSG VAPENRKLVT NHNVFGYLAS RFNYTVIDTI IPGGSTLAAP
SASDLNDIST AIEDNNVPAI FTDTSSPQRL AEVLASNAGI DVQVVSIFTE SLTDADGEAP
TYISMQKINA ERIASTLS

> aaRXA02444 (1-1278, translated) 426 residues
MKNSKLLLIA AVSTASILLA SCGTDSSADT ATASSSATAS SEAHDHDGHE AEGSSTAVEV
SSPQARIVTT YDGGIITLDA NTLEILEDTE LAGFNRLNSA GDGRHVFVST GGGFQLFDTG
AWTEPHGDHT HSYTATPELT DITYSTDKPG HVVNHAGKTV LFGDGDGKIQ IFDTASLLKG
DEVEPEIKNA LKAHHGVAVV LENGDLLHTL GDEDSRNGAV VFNAAGEEIA RNEQCPGVHG
ESAALGDAIA VGCEDGVLIY KDGEFTKVQA PDSYGRIGNQ SGSDVSPVVL GDYKVDKDAD
LERPERVSLT NTETGELTLV DLGTSYSFRS LGRGPAGEAV VLGTDGALHI IDANTGAITN
TYPVIDAWTE PEVWQEARPT LFINKDRAYV SDPSNNELHV VDLANGNILA SATLPGTPNE
LTGVSG

> aaRXA02452 (1-180, translated) 60 residues
MTPAGPAQLL IVALVVIVLF GSNKLPDVAR SVGRSMRIFK SEIKEMNKDQ IESSDQTLKN

> aaRXA02454 (1-813, translated) 271 residues
MHLLNFYWGD VSLSNTLFRR DAETYSAYLV DAETGEFQPN LSESRRLYDV DIARVNIIGE
LMDLQAGECL DKSIDVIALG GLVESSYLEL WTELTAEESV DASEYWRLSE RIDRLNQLGF
DVGELKVTKD DSRQVVRIRP VVVDPGHYRA ELLSLTGLSV EEHQAQRLLG SIQAYQAVEC
GPHVGLTQAA HLWMTNEYEP TIAAVPVEML DKLEPAQIFH EIVDHRWFLA QERGGAVTLP
EATASYLESV LPARRDEARL LSTNPSDEDL S

> aaRXA02457 (1-1110, translated) 370 residues
MFYFTVNNPQ DPLSTEIVET NRRDLAFWHR LRPKDDDDLA TAINKICVRT GLSRKLIAAC
LFSICFLPYL PNFHKLVEKL GHLDMARINA ITKAGEKVPS EKRELFDAYL VDYLTPRAEA
QCLPQASSIS AMMRKFIAQH CPDDKASSAT NDGSIRYRRN NKGGISITVD ATASEVTEIK
AALEQMSKDK DCTPGTSLLH IIRGLPTKVV LNTYGTKDSP EYLEGGTWLS KEQSEFWKTR
TTSSRDMDAA HFSYTTAYAP TREMRVYIKG LRTTCSVPGC SVAVENCQLD HIIPWGEGGP
TTPWNIHPLC VFHHIQKTEG RLQCYPLPDG TVLFLVDGIP VFSIPDGPLS KSNKTWGTKF
GKYMERRIAA

> aaRXA02459 (1-735, translated) 245 residues

LARRSYDESD VRVRPGKGTR PRTKDRPSHE NALVGMVVTK DRGRWGVVLD GRQDAIVTMR
ARELGRTAIE VGDRVGVVGD TSGRPGSLAR IVRLEERTSV LRRTADDTDP FERIVVANAD
QLLIVSAVAD PPPRAGFVER ALIAAFVGNL QPVLCLTKSD LADPAEFAAE FEALEVPVVV
CGVDDPLDPV LEVVEGHITA LIGQSGVGKS TLVNRLVPEC RSLNWCRVGG WQGSAYVDAV
GRSCH

> aaRXA02460 (1-504, translated) 168 residues
LRVYIPATFS TLRGLNESRV ITARSGYGFA VTPALLDFYT DGDEEEIAHA AFQDAAEASI
RLLAIGDEET FPYRRVVVSV DVDDSVVTYQ PENGESVVKL SPAHINLDDV AAIHIDVEAS
EADTKKAIEV IDESDLGEED AELTVGDAQD NFMAWYDPEE LPFLVELL

> aaRXA02461 (1-408, translated) 136 residues
MRGLIVDYAG VLDGTDEDQR RWRNLLAAAK KNGVGTVILS NDPGGLGAAP IRELETNGVV
DKVLLSGELG VEKPEEAAFQ AAADAIDLPM RDCVLVDDSI LNVRGAVEAG LVGVYYQQFD
RAVVEIVGLF GLEGEF

> aaRXA02464 (1-507, translated) 169 residues
MGTTPDDSRT PEITQDIEIT DGRIVAIGQS VAAVYTNDPS PRIVSYNDDG ELVGEQAVDE
VEFPDPPFQS ATADLPHHMS WFNGDSLVLF SPTQLNVRQS FNDALGTGIA LNGSLLYPTA
EGITVANWDT GEVQRTIPVD RAGYDGEVAL GVVGQVIVEK RGSEIVALG

> aaRXA02465 (1-399, translated) 133 residues
MPASIRWGGI VALIQSTIGF GYAFFLIYRE ATGETDPSIV YETDNANTWV GYGTAAFFII
VFGTVVAGAI NMMKGHRWGR GAVVMLNIIL LPAAYYMFIE GRFSWAIVTG ISALFVLGAL
FNKRAVLWAN NEI

> aaRXA02466 (1-87, translated) 29 residues
VGEGQEQTFT YVIEIEDGVN TAAYGGDDA

> aaRXA02467 (1-225, translated) 75 residues
MDIKIGFADT ARELVISSAL QQDEAAAKVS EALANDSGVL DLSDEKGRRY IIRNSRIAYV
EVGTSAPRTV GFAGA

> aaRXA02472 (1-291, translated) 97 residues
MSFVNITALT FPAGAEKEIE QRFAARKKAV DTAKGFQEFE LLRPQFGEDR YFVVTRWDSR
EDYQAWSDAR PAGNHADDEQ RGMSVEVLGF DVVPLEG

> aaRXA02473 (1-741, translated) 247 residues
MVAEYPDGSS EIFPVTLNLI PEDTLVYDAV YKFKSIRTGS EDQITPFVSN QPDVPFPAGT
SFTLTGYYEI DQLRSAGWKF ELNPVTGELS VTVPISVIYP DGSRDNTIAT MESVGPDDSE
LFKPDFDLIP IKSGDYIEIG VLAPGLPAGT EFHLDYYALP DRFFDLGGST SLSGNGKFSL
GVPLTWNDDL QLPISITFPD GSHTVENLHV DVTPANFAGN PIDEPKDDDK DHPQPAPKPS
GSSFGSS

> aaRXA02475 (1-1155, translated) 385 residues
MLGLSRRKFA MLAALTAGIV GVVATGCSTP AEPETIDNPV FIGISIDPIK NLSPNHAANL
FALSADGSGG IFQELAPTYF PSIHRLGNGF IAPDRDSLVV VDASLKEVYR HEVARLGVGM
QTQSARSPLH KSVAFSFNEG TAEAPYRHRI VSATEKTSAS AMTDQRHFAL TACDDGSTRW
VEYSPDRGME DPMGPGSARI VTLQADGELS EIDVEWNFPD RPSAPIILSC EDPSAYIVSE
EDIIYVKDEV SPAESIGKLP AYEIPDRARF DTVSGEDYFA FTSTGMLTRI NIPQAKIVYA
QSIDLYGKHP VSITFDSDRA YVVTSGDSGE SLLEIDLNDP TCTSDQLSLT GFNKLLTARK
PKPEPSIIIE TILPIDPNYS LGCKS

> aaRXA02478 (1-1236, translated) 412 residues
MRTSLIARGL YRIPALVWDQ GLLTLFDARL SVDDLPAPID VVSARSSDGI TWTTPEPAIV
ETEHRGVGDV CLVTGDLCFH GLSNLAGFFE DPTDLEPRLA RRDVSGWTSI SMAHYFADVD
AAFASSGTGL VLADGRWIQS FVVRRGREIS LRILRSDGHI TDIAGGNESA MTQLPSGRIV
LHSRGVGHRL SSVSDDFGET FTPLEPVPEL IDPGCNGHVF YWKAAGMLAA THLADPDLRR
HLVVDLSSDE GATWAHRITI EREEAAYSTA AEMPNGDVAV VWEAEGTRAI KCTVISVNDI
SLRIDEPISD AISLRHVVIN DDHDGIEVAL PDASQWGEGV FKIVSNPDAS TQKIRTRGKP
ARQTLEIGDE LVFDIRKGGE VAYGVTVPYD GRSLGKLNRI LEWGCRGRFA VL

> aaRXA02482 (1-810, translated) 270 residues
VGVAKSKKSA LPKVLLTIVV ILLLLVLVAE FGLRFMIGKQ LKDEFQAQAS SQGISATEEP
SISFGASPLL LGIARGSINE VTIDTPDSVS ITNQDGVPSI SGTPESTIQL QGLDIGDRDN
PVADHLTLTT LATDDFILAT IQQQMAEATG GNSTSQGFAE QLIQELIKVT DITSDAANQT
IEVEFTDGAA RASLHPIVTN GQLGFEIVDS QLFGFGLPDE ISQMLTDALQ SSINEVAGGL
QIQSLEVVDA GINVTLTGDN INIQTLEAAQ

> aaRXA02483 (1-813, translated) 271 residues
MADHAHNLRA SFRKGANGKQ KPIGVITRGT TGVNRLRRFD RWCFHHPKIR SLLDATSLAL
DVGYGASHTT TVEWGRWLHR LQPDMDVIGL EINPERVLEP QNGVSFELGG FELAGYTPQL
VRAFNVLRQY DVDQVEAAWE TVTSRLAPGG LFFEGTCDEI GKRCTWITLN SDGPQELTLA
WDPWGISTPS DVAERLPKML IHRNIPGEKI HALLAAADLA WDYCAGWEPH GPRVRWEKAR
EMLIDQGWPI AVSRRRVGDS LLTVPWETVA P

> aaRXA02484 (1-501, translated) 167 residues
MATRTENTIT INQPVGKVHQ ALTTEAYWAY IAENLSPEAG EVNEFTAADG GATATLFEVL
PLEVLPEAVR AMISQALKVK RVLTVPALTN NATTVEYNAD VKGTPVDFKG TIAINGDDAA
TTFDYSNEVS VNIPFMGPAI EPKVADALGE LFANEGALTE KWISENL

> aaRXA02486 (1-636, translated) 212 residues
MTEFSDVPGT AAPLHRALEN AGYSTLESLD GVPYKTLIAL HGVGKTGLGR IQAALLERGL
SLGEETKGAT ITPGHTGKVA SDIKTHITSV DPVAYVDGLE GRRVAHGHQL LSIFGRVTGA
EPKMWGPSMI GYGSVHYVSH TGREGDWFQC GFSPAKSKIC LYGLKDSPRG EELLQKLGKY
TEGRGCVYIN KPEDIDLDVL EAMISESWAG QG

> aaRXA02488 (1-369, translated) 123 residues
KLTATGVDVM GTFYPEGEAL APITLNLTNE VVCDEPETPV EPEVPVEPET PVDPETSVDP
ETPVDPETSV DPEKPGDDNK DDGSNSSSNG DILGILGILA ALGGVGALVY NFLVASGFLA
AFK

> aaRXA02489 (1-624, translated) 208 residues
MNRFPSALLA ASVAGAALAI PATSAHAAES ICTFTGDVGW NVRDSFNSYL LGNIANGSAY
KYKGGLDVRD GVQTDGNGKT PALTWPVDSV TSSKISTSGG AHWTGHNLYP GDDLAEVPNN
FTLDLDFSNI TVELSGSTGR LLVDYTSREY INTHTLGEFQ TGEQAELATI TFAKAPDLTS
NSVNVTGDVA LTADGVEVFG GFYTAGEE

> aaRXA02495 (1-2568, translated) 856 residues
MALTVLSVVL GTAFLCGSLL LTHSLERTFS SIVDAGVEGV DVGVIAQQNN PDGVPFSVIA
EIEQYPEVRA VNIIGDGPGM PSGTTMTGQS ALILTDSDGN PLQAGSSGTH PLAIYPQGEW
VSPEPTLIDG HFPTKPDEVV VNASAAKRGG LSLGDHLTIV TPTERIDATL SGTFESNTDV
AGWVGVGFTP QRYVELLTNG TDASQITIAV NDGADPMAVR NRIGKNHRDL LPLLPEQIID
QTTGDTDRQL EFMTYVLLAF AAIALIVGSF IIANTFAMIV AQRTGEFALL RSIGVSTFQI
GFSVIMEAVF VGLIGGFIGI AVGFGVVNAL VQVLNQFGDT LSSIDITYNA GSFIFPVLFA
VTATVLSSIS PAHRAGNLPP VQAFESSDAR SDALGRIRFL VAAVMLTLGI SLTIAGAVVS
AINGDEFKTE TRLAFIGAGL LLVFFSLSLS GPALMVATSQ TLGVAIMSPF RAVGKLAQRN
TLRNPRRSAT TALAVTLSVG LVACVGVIGA TTRASVFGSM ESTIKSPYVL DSIGGTMIPG
QPAGGSRSLS MSAAVAQEIA QTRGVGKVGT LMTGSVQVNG WDNENTTIFD GDLSQFLDLA
VRSGDAFDDE TPGVMISTTY ADQSDLEVGD TVTVNPYGSD DGIRVPITGI YAETNLVGHL
MVNAAATNRV LTSADTYHRS QIFVNGDGST TNEELRDILV DAVAPFLIVQ VKSKDEFRGS
LGTQINQLLG IIYGLLALAV IIAVLGIVNT LFLSISERTR EIGILRATGV QRGQIRRMIT
LESVILSIHG AIHGLLLGTF IGWAIVSCLR TRGMAPVEFP WTQIGLMLIS AIIIGGIAAL
IPANRASRIS PLEAIN

> aaRXA02496 (1-807, translated) 269 residues
VNRSNSSSVF LGFPESSPAA ASIRAGEELP LDFPREWYEF TDPTDIEHVF SIDLTWLESN
WNCTFGTPDC LGIDSENADV GCCGHGAFLA DETDRDQLYD AVAQMPAKYW QLRPASTDSF
LASDDGTDIE PWLTWDELDD EDGNPEPALK TTVVNGACIF ANRAGWETGA GCALHQWGVN
ANEDLTVVKP EVCWQLPLRR LEAWEERPDG QEILRTTITE YNRRGWGNGG EDFDWYCTTS
PRCHTNAEPM WKTQETELRA LMGPNSYEV

> aaRXA02498 (1-804, translated) 268 residues
MSEEKLTVAE LMARAAKEGR STDAPRRRRR RSIEDGGVSV AELTGSIPAV KEKPAESKHS
SVPIDAPAEP EVVEAPKPEP AEEVEVASVE GDVDKQETPE RPAPSNEETM VLRIVDEKDP
ISLTTGAFPV VPAVAAKPAP VVRAEKDADV ETAVKADFAE VEVDNTDTTQ MAVVEEVDEE
PEQENKMSVF AIIMMAIVGV VLGVVVFLGF EMLWERLNKW IVAVLAVGVT LGMVGIIHAL
RTSRDGFSMV LAGIVGLVMT FGPLAIVM

> aaRXA02500 (1-99, translated) 33 residues
MGSVIKKRRK RMSKKKHRKM LRRTRVQRRK LGK

> aaRXA02505 (1-171, translated) 57 residues
VAGTHAYVNE TLSENEFSMC RKNEPGLVIE LENISIDRIV ISTPDAHRYA DELMAAV

> aaRXA02506 (1-882, translated) 294 residues
MHLNQLEFFI AVAQHGQINR AAEELLISQP ALSRQISALE KSVGAPLFER HSRGVSLTKA
GEILHEEALR TLSRMQSVVD EIQSGEHLIT SINIGVPPGI PIDWLRCQLI DLGPETRISL
IESPTDDQLK LLKQRELDIA LCRRQSEAFA TTLVHEQELG IVVRKNSELH QKVAGKDNAT
LFDLEGLRVL AHSRGEVRIQ EEILKNAMLA AGVNATWIFR KFGQYSSLIA DLVQADVALT
TEESARTNFP SWQWVPIEGE DASGNDLVVR TWITWNPQPT PAVKALIQKF IDGN

> aaRXA02510 (1-636, translated) 212 residues
MDSSDSHVGQ DVYVDQGLGE PDRLERLWAP YRMSYINTRS GGKQSTTAKR DPFIEVPKMS
DEDGLIVARG ELVYCVLNLY PYNAGHMMVI PFRKEKNLED LSLAESAELM LFTQTAIKAL
KQVSNPDAVN VGLNLGKASG GSVGDHLHVH VVPRWSGDAN FMTVIDGVKV LPQTLRQTRA
MLAQAWGTID GAPGTVDPTL TSAIRTAAPK EH

> aaRXA02514 (1-837, translated) 279 residues
NSHNPTPVTI TVTGKGEGVT SFGAISIEVE AGADAIVALQ YVGSGTHADN VEFIVGDNAR
LTVITDTHWN ADAVHLSNQL AQLGRDATLR HTVATFGGEV VRIVPRVRFT APGGDAEMLG
VYFADDGQYF EQRLLVDHAV PNCRSNVLYK GALQGDKNSD KPDARTCWVG DVLIRSNAHG
TDTYEANRSL VLTEGARADA IPNLEIETGQ IVGAGHAATV GRFDDEHVFY LQARGIPAEE
ARRLIVRGFF NEVINKVPVE SIRGELDNRV SSELAVLGM

> aaRXA02518 (1-411, translated) 137 residues
MSEHTENTTE VEDQNASTFE AQSSERPEQS EADLAKASDV EEYMRDVIDP ELGINVVDLG
LVYDIYIING NEAHIDMTLT SPACPLTDVI EDQARTAIVG NGIAEKMSLN WVWMPPWGPH
MITEEGRAQL QALGFAV

> aaRXA02519 (1-1806, translated) 602 residues
MFSAPLRRMM RVTKDEQIQP NSNAPENRKW FPRAPRPLRQ FLDTLPRIGT AGSRSATLHV
EDEQSPLGAT LFDVATGASS INDRDTDASG LEPEKIRRFA WLRLIGTMGA LMIAFGALGA
GALPVVNNPY VDFPGGNFMS RMLQTSSMIV LIGVGFLVLA WVLMAPLVGI PFKRSGNRTA
SVSLSMLRRT FGAWVAPIML TAPLFTQDIY SYLAQGSVTA QGMDAYAGGP LELLGPDNHL
ARSVPFIWAQ SPSPYGPVAL SIAASISVIT NDSIVGGVLA HRIASLLGVV AAGWAITMLA
RRCRVSEEAS FYLGVLNPLL ILHLIGGIHN ESILLGFLLV GLELGLRGTD RIQTGLWGPA
WTYIALSGVL ISCAGLVKVT GFIGLGFVGM ALARAFHARG HRHVVAIGVA GLVQVAALVI
TVVVLSVITG ISLGWITGQG GAATIRSWMS MTTNIGVISG FIGMNLGLGD HTAAMLVVTR
AAGIAVAAAF MVRMLFATYR GHIHAVGGLG VATFVLVILF PVVHPWYMLW AIVPLASWAN
RLFFQLGVIA YSTAFSFFVL PRGLALPVGT VFSIYFGAAL GFSILLLVGW WSLRRNPTFG
LH

> aaRXA02520 (1-684, translated) 228 residues
VGDVVKGNDA HTGDGDTRRK ILLILLERAP VIASDIAEQL QLSTVGVRRH LDNLVEENLA
EAANPRQNPY EPKMRGRPAK TYRLTDKGRS IFGHEYDSLA AAALATLREV GGDDAVRQFA
RKRIETIVEG ITPADVTDQS IEDTAKSLVE AFSRHGYAAT VDATRNGLQL CQHHCPISTV
ATEFPELCEA EHQAVSELLG QHTQPLATIA DGHGICTTNI ALTPIKHS

> aaRXA02521 (1-1443, translated) 481 residues
MTSATTNPGV NEPLTDDQII ESIGPYNYGW HDSDDAGASA QRGLSEDVVR DISAKKSEPE
WMLQQRLKAL SIFDKKPVPT WGADLSGIDF DNIKYFVRST EKQAQSWEDL PEDIKNTYDK
LGIPEAEKQR LVAGVAAQYE SEVVYHQIRE DLEEKGVIFL DTDTALKEHP EIFQEYFGTV

IPAGDNKFSA LNSAVWSGGS FIYVPKGVHV DIPLQAYFRI NTENMGQFER TLIIVDEDAY
VHYVEGCTAP IYKSDSLHSA VVEIIVKKGG RCRYTTIQNW SNNVYNLVTK RTKVEEGGTM
EWVDGNIGSK VTMKYPAVWM TGPHAKGEVL SVAFAGEGQF QDTGAKMTHM APYTSSNIVS
KSVARGGGRA AYRGLVQINA NAHHSTSNVE CDALLVDDIS RSDTYPYNDI RNDHVSLGHE
ATVSQVSEEQ LFYLMSRGLA EEEAMAMIVR GFVEPIAKEL PMEYALELNR LIELQMEGSV
G

> aaRXA02524 (1-690, translated) 230 residues
MTETTPQPPK PEPELPKFLS NPERADIILF IALIVMGIFS LCMIPLRAWM LTQPLAYTLI
VGGYTSAVVG GANASVENGI WWVYWLCTLI GALKFMPVYW LMGKRWGMEF IDMSLQYMPR
FHRMFKKSVD SESTRLYAWI IGLIPLAYLP GPVPGTILNA VAGLVKIPFW IIMAWNAICV
LSVNGLFMWL GYTFGEQVLD IVNVVNRYML WITLGLLALM FFRARKQFAK

> aaRXA02525 (1-378, translated) 126 residues
MTTMREVSTD LNILIVPSEW EKVLENLPAT LSESGFVASE IHSQIVDLTC EPDNMLVTQF
SQLEGHPPIV EVLHRLVING SSDLELKDLT KKVVGALPQG TYWYGTSLEG ATEPGVNASC
AWQHRG

> aaRXA02534 (1-804, translated) 268 residues
MNSPNADIIL VVNKLSKFID IENIMLVGAR CRDIHQQKYR DQTAGRRTKD VDFALALESW
DDFNLLKQQF SPTGNAWQGI TIGNIPVDLV PFGNIENPPG EVLSRKGHLL NVAGFKEVFE
QAELYPLNDA IDIKLSTVPG LTALKLHAWL DRKENNIKDA SDLALILSWY EEDVETLWNR
YFALENQGYI GEPEAMAAEL LGLDTGRILG HKETQALLDR FNEQSPPELN QFAESLEAPP
EHSHPLERRR IQVEALLGGL RDSLGYDE

> aaRXA02537 (1-462, translated) 154 residues
MLALKSSELE GIATSLTAVA GALHESNTDR LQSWQQLETM TSASSLIQGF IKLVDYNRPT
VNIVEQMHKT ASTLFNTADF LRTLEGYVDV LEKQADKSIT LTVMLRYIAS LSSLLDLMCA
REINALCTAI TPEPLKHLGD FGTLPPQQST SFIW

> aaRXA02538 (1-672, translated) 224 residues
VNAPPEIRAL AEAHPDMQIL EAGDGSLVAS FGDIDRATTV TTIVAGVGSS NPEGWNTYVD
RARTVSASTG SATVLWLGYQ APASIPAAVS GAAANRAAAD LQRFQAALQS RNPHQRKVVM
GYSYGSTVVG KAASSGELSA DALVLVGSPG AGVSHSSQLG APVYAVTGSA DPIGFAGTQY
DGIHGTDPTA ALFGATVWDS PSTHSGYWND QEFLGNVAEV VRGK

> aaRXA02540 (1-438, translated) 146 residues
MASTPKKSND EGQFDRVDFQ GEVFVISVAA ELAGMHAQTL RTYDRMGLVT PIRTRGGGRR
YSRADVELLR EIQHLSQEEG VNLAGIKAII ELGEENRNLK ESLRKVTAEN EQLKDQLRSG
RPRGELVHVP RSTAVVMWER RKGRSK

> aaRXA02544 (1-1428, translated) 476 residues
VSHTCGIVIF VSTESGNTPK RDDAKSTIPP KDLPDTVLDA IEGNFEPPLN TQKSAVPPNA
EATVEADSEG TTDRSVILGR DGRWLSGWAL RFIVLVIAGV IALRMLGFIW VGILPVVLAL
LVCTVLWPPV KWLREHKIPT ALAVVITILG FFALIGGVFA AIAPSVSSQT KQVVDQATVG
IEDLMDWVQG PPFNLDISQF EGALNDLTSM LQSQSSTIAS GVFSGLSTAS SIVVTLAVML
VLTFFFLKDG PRFLPWMRGF TGENAGWHLT EVLTRTWNTL AGFIRAQALV SMVDAIFIGI
GLLLLGVPMA LALAVITFFA GFIPIVGAVS AGALAVIIAL VTNGVTNALL VLVLILAVQQ
IEGNILSPFL QSKAMNLHAA VVLLSVTVGS TMFGIIGAFL AVPVAATLAV WVRYHSEMVA
LRAGEITSDD IEIATTKGSP TSLNGQETLA AIRSRFAILG RKKPTSATAE KADSES

> aaRXA02545 (1-558, translated) 186 residues
MTETLFVSAT TEEAVYLPDG IDLLVTGIGT TAATMILTKE LATREVLPAR IVNIGTAGAL
VDGLAGVYEI EYVLQHDFSS ELIAEMTGKP CSNGSTLATS GHFPVASLAT GNSFIADSET
RNHLATRASL CDMEGAALVG VAKHFGVPIT LLKQVSDSAD EEASGSWFDA VDAGARQLAE
AVKEFK

> aaRXA02546 (1-1104, translated) 368 residues
MPLFIDDALH RSKKYFHAHL SELLLGEFAG LSLPLHPPTA AKAAADIDAT REFIRQWEGR
DDVEYAIRNW SPVGLGKTEV PVRLTLNTTE ELVVFAQVED EWSSLHERFS QLSGFTAEVV
AKHVSLWRSL SNDDLSKAVL VVDWFLKHPN SGLLKRAVAV EGVHTKWLEN HRVLIETLVA

DKRGEPGRAD LGLGDAEARV RLRFHSVDAP AGLTDIEVPL SNLCELQEPQ VILMVENLDS
FLALPTWPGV TIAWGAGYRA VDIVRGPYFS NGRLLYWGDL DLDGFKILDG VRSHVPHTES
VLMNSETVSR WRYLGVADRE FKAESFDNLH DFESDALDLL ITDGELRIEQ ERIRLDVAVE
EIEKVIRG

> aaRXA02549 (1-1326, translated) 442 residues
TLTAISSETW PIMLAPWVCL PLLSRNVDAR AIALSLLPAA CMGAVNATAT MAALIPAALI
LLYRGLFLRL LLWGMGVLAV NSWWIGPLLV LGKYAPPFTE FIESSSVTTS WLNPVEILRG
TTSWTPFVDT ERQAGYLLVN DALFVTLSVL VAALGLIGLT LMKHRGLWAF MLAIGLLILG
SAHLTAVQEF LDGPGAALRN IHKFDLLLVRM PLMVGVAALG SHISLPLLGT TALTSGQGKH
HTIPLPLQKR QAAGLLVVII AVGALAPAWS ARLLPQGTWD EVPDYWYEAT EFLNQNATGT
RTLIWPSSPF ARQDWGWTRD EPAQPLLDVP WAVRDAIPLV PPEAIRGLDG LDDLGTLGTG
LNDEALKRLG IGAVLVRHDL EADPDIEVDL PGEKHTFGSQ GQVDVYLTDP DRNMWITSGT
SKQLPTVAGG GEILSLLDTI NG

> aaRXA02552 (1-795, translated) 265 residues
VGKHAAETSE PKKNSPWRIG LLTFLISSVV VTLVGMVMLW PDSDDVVLAD NFSQTFAGNH
EQVDGTITLV DNSACNSPDT GRVFAESPTI SAEPATLECV RALVDITSGA NEGQKTQLIT
YAQPGDPEFS EGDKIRMVET PDTNGEIIYT FADYQRGPAL IIWGVVLIVA MGAFAAWRGV
RALVGLVVTL GIVGIFLLPG LASGHDAMWL ALVCGAAILL IVVPMVHGIN WKSAAALAGT
LVALLLSAVL SWASIVTTEF ARTGR

> aaRXA02554 (1-624, translated) 208 residues
MSHTKPSIAI LGAGRVGSSL ARSAVAAGYE VKVAGSGAVD KIALTAEILM PGAVPSTADQ
AVKDADIVFL AVPLHKFRSV NPATLEGKIV IDTMNHWVPV NGELEEIDQD PRSTSEIIAE
FFAGSTMVKS FNHIGYHEIE QDAGTGRAIA YATDDVDAGA QVAQLIKSFG FVPLNIGALE
NGRILEPGQE AFGAHLNKDS RLELVNQR

> aaRXA02555 (1-603, translated) 201 residues
MGEQFPGDKN IRVSDTERSA ALAALGQFYA EGRLSLEETD DRCEAVADAK TRGDLNAIFY
DLPNQQIAVV DRSEQTYTAT EVAELHRKGA RPRAGILGLT TVLAITGTAA FASTTAFATV
LLALIPIVFI MLYVMKIGPE SWHAPTPRQL QRKRMIELRE KEKLRDMELK AQRKERTHAL
TNRALDAAET AFNTKPWKKN K

> aaRXA02564 (1-675, translated) 225 residues
MAEVGAEPAG SAQSKTKQFV VGTAAVVITA IAAFFSIQSA SGGEDIRSNM TLIAPAAAGG
GWDTFQREQQ QSMRVNKIVN NIQVVNIPGA GGTIALGKLS TMTAPNTLMV GGTGHIAAQI
QFDTPAKIQD VTPIARVVEE FDIITVPADS PYNTLEELIE GWKADPAGVS WTGGGSFDQL
VMTEIALSAG IDPKQTTFIP SDGGGEAIQA LLNGTAKAST GGFAD

> aaRXA02568 (1-1359, translated) 453 residues
IPAAPSAPGS AIPTPGTAIP VPGSATPVPA PGVSAPGASV PSIPVPGSVT PPAPGISAPG
GALPTPGSAP PTPGGALPTP GEALPVPGAP GAPGASGIPS PGLPTPGVPT PGASLPVPGA
PDAPGTPSIP AAPGIQAPGI PAAPGAPAQA AAHAKPVFQD AEKRPRTDEA GNAKKELPLR
VRLAQPITRK QWAMTLGVLV LGAIVVAAIA VVLAKWAFTT EWLQDFVEKY PGKYDNPEGA
PVGIPTWLSW QHFFNMFFMV LIIKTGIEIN RTRRPKGYWT PKKGGKKISL TLWIHLVLDL
LWIINGAVFI ILLFATGQWM RIVPTSWDVF PNALSAGLQY VSLDWPTENG WANYNSLQEL
TYFFTVFIAA PLSIVSGFRM SSYWPKNNAT MNKLIPIGFA RALHMPVMVY YIVFICIHVF
LVLATGALRN FNHMYAGQDV VNWVGFGWFV ASL

> aaRXA02569 (1-750, translated) 250 residues
MSRSSKISVA FGGLLIAATW LYLVLVRPTD WESVGGSTEA LITLVGYVAG TIALLVGVLP
TLPARTIAII PVALVLNILL GQVTGSFVIP LYLDAVGTVL VAALAGPSAG LATGALSSVV
WALFNPLALP FAAGSALTGW LTGVVIKKGA FKNIFATIIS GAVIGLITGA VAAPVAAFVY
GGTAGVGTGA VVSLFREMGN SLLASVTWQS FISDPLDKAI VMLIVFVVVK SLPKRTTRAL
VPQRVPEDVA

> aaRXA02570 (1-642, translated) 214 residues
MNPLTWIIGA FSMWIVVLGV NKLGLSIAVI IIAQVVAMIR VRNVSVLAST ALLSVPALAS
MALIHMPYSS DGWLIALTLT ARFSALMSIF LLAATAITIP ELVKSLYRWP KLAYIVGSAL
QMIPQGKQTL ALVRDANALR GRSVKGPVRA VKYVGLPLIT HLLSAGAARA IPLEVAGLDR

PGPRTVLVEV VEGRVEKHCR WLLPLLAVGM AWWL

> aaRXA02573 (1-444, translated) 148 residues
MTNKTMLVAF DGSPESRRAL EYAAKLLQPR TVEILTAWEP LHRQAARSVS LITLGVEPED
PAHSAALKTC QEGVELAQSL GLEARAHMVE SATAVWSAIV DAADELRPDV IVTGTRGISG
WKSLWQSSTS DSVLHHADVP VFVVPPLD

> aaRXA02575 (1-1158, translated) 386 residues
VKNSGKNSAK NRTKGILIGV LVGLIAIFAG IYAVDVFLNK DNIPRGTTVG GVSISNLSAQ
EARTKLETEL ANDVVQPVTV TAGEQSTTFD PVASGVGIDW DATIEGTGEQ SWNPITRFVA
LFKESESPIV STVDPAAFGP TLDRMVGELY RDPISGNLHI DAGTLVVNDT IDGQAVDRTI
LEQAVTENWL NPEGVKAEPY VVPAAISQDT IDKLAEGAGA KAVSSPFVVR GDDGIEGTIP
VERMGEVVSF PEENGTIRVD INAEAATAML AEGLKETEIE PTNAQISFSS GSRVVTPEVT
GHGINWEETL ADLPNNLTGD GPRTIDAIYE DTPATFTATD AQNATFNEVM GEFTTGGFSA
ASGTNIRLTA QMVDGAVVSP GDTFSL

> aaRXA02576 (1-1422, translated) 474 residues
MTPTRRILLW AWTTVLLGSL LWPLAAPGEL LLRDMSVVDH PALSLNALGF GDLPSRNAPQ
DGVLALLGFL PVSWIVRTML LVAGFAGAWG AMRLGPSKFL AVTVAIYNPF VVERLLQGHW
SLVMAVWLFP LVVALRRHPR WQVVAIWAAS LTPTGAVVAA VTGVASSKRK RFTTLCSFLS
WLPWLIPALL ATPTSGGALT FAIRSETYAG TLGTALGLGG IWNAGAVPAS RELGFAVAGI
LLFAILLAGF KNCPWVLALL AVVGFMGAIG PWLMPNLFTW TIAYVPGAAL FRDSQKLLML
AIPAYVCLAA GVKSPLSWVA TGLALLQIPD APREVSVIRP SSAHVESVEA LAEIADGRDI
LIIGQGPLVT REDGIPVVDP KTKALSVVES GELRVDGIIT DAPSQRWTEA TQAWAAGDIE
RLEELGVGVV VDGDTITETG APPQHGWKYY LGVGLTVLWM ALPLGLLFRR KTKK

> aaRXA02577 (1-885, translated) 295 residues
MGAYDWVDII STCEFSGKVW AVFMKRSATV LIIAGVLFLI FAFTVPPYVT GQARTIPKDL
DLTLVSESPQ GFVRTEHIVT APTEKVDEIA THVDQTVTDV QGKTVAEISD DVVLIGHSRY
PVIKPTATIS GSPADSSNVV REGLHYFFPA NTLRNSYPYY DIVLGEDSPV DYVSREGNTY
TFYQHLRYVP LDDSHTYSVE RTLKVDRFSG IIVAKDEAMT FHGPDGDDTV EFTYTADTLK
LLQDHAHDID QRLSWAKGFD FFSKFLGLSL LAIGVFLTGI FKRGQLMSTV NKLRS

> aaRXA02584 (1-351, translated) 117 residues
MSLLCDSIAI GLFALFARVA HQSADMPLNV QGWFFTWLPF LAGVFIAYLV AILPAKLPSE
RIRPAGLTVW ILAVIVGLVI WGFNNGGVPH WSFMIVATTA SAILVLGWRA LFKVTMR

> aaRXA02585 (1-981, translated) 327 residues
MGIQQIRHVS PVGVALTMVA LVLSFVAMAR VMQIMLKAGG SPATLKATTA LTFAANSWSA
TLPGGPAFSA ILTYKVQRSW GASAVLCSWF FLLSSALSTV WLVALGVIAV FYMGASLNLW
SLIATFIAMV GLSGAVYWAA NNPDSLARWV RKLTKNREWG FVEKLLGSIE QLRSVSLTGP
QFAASTAWSL GNRLFDAISL WICIWAVTGT APMFEPEPNN TTIAGVLLAY TTAKIAGSIQ
ATPGGIGPIE AAYIAALVAT GMTAVEAAGA VIIYRLCSFI IMAIVGWVIY FIYFTPQGLK
ANESLDVEQD TINSDSNRQS AIERPDT

> aaRXA02588 (1-684, translated) 228 residues
MSDVHEVIHS YNPTDKEGPE SVLLVWDAPN LDMGLGAILG GRPTAAYRPR FDAIGRWLLA
RAGRRAHELG RHIEPEATVF ANITPGGSDV VRPWVEALRN VGFAVFAKPK IGEDSDVDPD
MIDHIRRRYE EGVLRGVIVA SADGQNFRET LEELVAEGIP ATVIGFHEHA SWAVAHDTIE
FVDLEEIPGV FREPLPRVSL DNLPDGGAWL QPFRPLTALL SNRHNSQE

> aaRXA02591 (1-1830, translated) 610 residues
MTTAAIRGLQ GEAPTKNKEL LNWIADAVEL FQPEAVVFVD GSQAEWDRMA EDLVEAGTLI
KLNEEKRPNS YLARSNPSDV ARVESRTFIC SEKEEDAGPT NNWAPPQAMK DEMSKHYAGS
MKGRTMYVVP FCMGPISDPD PKLGVQLTDS EYVVMSMRIM TRMGIEALDK IGANGSFVRC
LHSVGAPLEP GQEDVAWPCN DTKYITQFPE TKEIWSYGSG YGGNAILAKK CYALRIASVM
AREEGWMAEH MLILKLINPE GKAYHIAAAF PSACGKTNLA MITPTIPGWT AQVVGDDIAW
LKLREDGLYA VNPENGFFGV APGTNYASNP IAMKTMEPGN TLFTNVALTD DGDIWWEGMD
GDAPAHLIDW MGNDWTPESD ENAAHPNSRY CVAIDQSPAA APEFNDWEGV KIDAILFGGR
RADTVPLVTQ TYDWEHGTMV GALLASGQTA ASAEAKVGTL RHDPMAMLPF IGYNAGEYLQ
NWIDMGNKGG DKMPSIFLVN WFRRGEDGRF LWPGFGDNSR VLKWVIDRIE GHVGADETVV

GHTAKAEDLD LDGLDTPIED VKEALTAPAE QWANDVEDNA EYLTFLGPRV PAEVHSQFDA
LKARISAAHA

> aaRXA02593 (1-213, translated) 71 residues
LKIAHFDLDN PADESSYIFA RSLAEVDGWT LEFGVAGVKN TTIVSSIDDA ITTILRWMNG
EDIRDLNWTR A

> aaRXA02594 (1-324, translated) 108 residues
MEAMATTITV FSPTHSPAQI RETILSAAKE DDVDFLGVPF THPRNVTIEV DDELINDCLG
WLDDVALASG LGIQYNDEVL RYGDEDISFT VQTKNDDDAR IGASRLGL

> aaRXA02598 (1-591, translated) 197 residues
VTTDQNKRSL SELAARIVSE ICAPWVLNIG FFLILGGVTG AWTLGIVAAI GTGIVPMILI
LGLMKLGRVG NHHVTTRNQR GLVFVGIIVC VIILIFILRA LEAPQLIWDG MFSALIFLVL
FAQVTLKIKA SVHVGLWVCL VMFLGLTVSS WWLLGLLFTP VTAWARMRIK HHTMSEIVAG
VVTGAVATGI CYALLLA

> aaRXA02600 (1-1398, translated) 466 residues
MQPFPLSLTN SSVAGIAAGA LLFLSVPFAS PVHAQTILQD TLEVTVLDNA DELAPEDEDF
LSTETPKIDF PDSVTAVRYI TLTDNTDKIN DDVENYLRAE HPEWIQTNSF APGEVIIAVG
FDPNTMGAYA GNDVAAETGI AEQDRIDGTT DAMRPLLQDG RIALGMLEGA KSVADTSVVR
ESSAPSGGVI AAILGGIAAL VAIIVAWATS YANKKKAEKA REQFDYASRH YGEVAQQLDG
INVRAHSLTS PLADDELRRQ WDDVNSRFLE VNDIFGRLEG LTSTSENKAF RKALPDIEKA
HTAVTQMEIA QKNIDTLYDM EHGHEDTRRR ELTRLRADMQ EARQDINDKD AVVDDILRTL
IQRTETIAPS APDFMDQYAR LIRDYAVALQ GVEKNLEQVK QTTERNAPAI YDDNWRVGTG
YNSWVPYYMI SSWHAADVSA ASSASSSSAN TTFSSGFSGA GGGSSW

> aaRXA02601 (1-1989, translated) 663 residues
MKGEDTSMSA TNLAVEQLQR VLLPRRGEPA DVRSLYLLEA ESNKERLEWE DRFSVSVPAG
AEVSFQTYFN AFPASYWRRW SQLDSVVLKL KVSGEARVDL YRSKIDGARI GITGSVVKDD
FIEFEVSLAP FEDGGWIWFD LTAETDATVE EAGWYAPHAP KAQIMPDGSE VGPFEARATV
GIPTFNRPAD AVAALEALAS DPAVDAVIDT VIMPDQGNKH PADEPGYKAA VEHFGDRFFE
FRQGNLGGSG GYSRIMFEAL GGVDGKGEAG AAKSPYILYM DDDIAIEPDS VLRALQVARY
AKSPILVGGQ MLNLQERSHL HTMGEVVGGH DFMWTAAPHV HYDHDFSAHP LHDRGKFDDK
PDAPNSRDLH RRIDVDFNGW WMCMIPRVVA EQIGQPLPLF IKWDDAEYGL RARKAGFPTA
TWPGIAIWHM AWSDKDDAID WQAYFHLRNR LVVAAMYHQG SVDGIVRSMQ KATFKHLLCL
EYSTVAIQNE AMKDFLAGPD QLFSILDTSL PRIAAIRKTY PDAVVLPSAT ELPRATGAPG
VPTKDIGGRL APIKKAMWLA KGLKHSLSKE DASHHEVPQA NFAPIEARWF SLSRVDGATV
TTADGRGVVY RKRDRDKAKE LGKEARALQK QVAERFDELS RAYRNAHPEL VSREAWGKVF
DEQ

> aaRXA02602 (1-504, translated) 168 residues
MSNKEVQILV AIQDQLMDAP GVLPTARGLS LLGEHAAGWL ALGAGGAVVD KKRRRSWAGL
FIAALGSHAA SVIIKRVVRR ARPHDPAIRI GVGTPSKLSF PSSHATSTTA TMVYLARITK
SPVPLLGIPI MVLSRMVLGV HYPTDVLAGA LLGAATAEAV HKIERATK

> aaRXA02604 (1-2076, translated) 692 residues
VLACGLMTFS PQRPEFETGK QPDPETEHAG DFFEETSSSA PRAASNGSSG PNYTLITTFL
AALTAGIFAF WAGWTRKWIS DDGLIVLRTV RNLLAGNGPV FNAGERVEAN TSTLWQYCIY
LVALVTDYRL EDIALWLALL FTTAASIIGV LGTAHLHRKR IAVLLPAGVI GYFSLSPARD
FATSGLEWGL SLMWISIQWL LLVLWATSGK TSGKKASGAK TSNPIVNAGA ITYALAFWSG
LSWLVRPELA MYGGLTGVLL LLTAPRWRVV LGILVAALPL PAAYQIFRMG YYGLMVPHTA
VAKSASDAVW GTGWEYVEDF TGPYNLWLGL ALLLAAGALT VWKTDKHLAI PKGRLGLRTP
GMAIALLVIC ALVHFLYVIR VGGDFMHGRM LLLPLFAILL PVSVIPVNVV DRGWQDLVAL
VLVFSTWVWS TVVFVQGHQW ENTGQHVVDE RDFWIDFTNR DEDHPPLYAE DFLTVDSMND
YAEVMRDQTL VNPTGQQLNI LASSDPTTYS WITTPRVEGV EAGDLANLSP TVFHVNLGMT
SMNAPLNVRV TDLIGLATPL AARQPRIEGG RIGHDKLMDL EWQVAESATP LAYTPGWLDT
QKTYEARQAL RHPELVHLFQ TYREPMSYHR FVDNIKYALT TGRTLEISDN PEDLLKEFNP
TPAEIQDGLE TIAWPGEIKL DEPRGEPLYS SQ

> aaRXA02606 (1-1371, translated) 457 residues

MQEIHTIMKH MDALIADPSA AAFKATLPFA ELLEKLHNKK ALFDAALAKS AERADAGRII
GKTSHIDALA YLLDISKSEA FRRTKRAEEH YGNPSPEPSS EELAKETPEE KLAREEKEKQ
DLAEQAEANR IAREHGISAE KQDTIRYELE KLNDNTSLSR ASLRKLAMQE ATSRTPEDLR
NWTRNKVIRI NPTAKDPLAA VKKRSLSIGR QDHDGGAKAS LYLDAKGLAL LKSLMSKAKP
GHLLEDSLAE DKRTKPQRQY DAFADILHRA HSDLLPARSG VGTILVSLSA KDVTNLKASG
PDHRYPTSTG IKLTPLEILR LGAAKYDFVT VLDSESGRPL HLARTQRTAS LYQRLALFAS
ELVCTREGCD SPFEDNEIHH IRSWLDGGPT DIENITNICP HDHGNNNDQR DGKDNMGHMN
IDPTTGRVGY QPADRRKPMR FNNTAAAAES GGAQART

> aaRXA02609 (1-249, translated) 83 residues
VERSAEAQAF LDALKDEKID ISGVEDQLIA TARNYCSSEN KDQNVTVDAV AGQLIVQGRT
SVKEDQAAEI STLLKESADR TYC

> aaRXA02610 (1-927, translated) 309 residues
MRKTITVIAV LIVLALIGVG IVQYVNTSDD SDFIGQPGEP TGTETTEPPV QPDWCPAVEV
IAAPGTWESA ANDDPINPTA NPLSFMLSIT QPLQERYSAD DVKVWTLPYT AQFRNINSQN
EMSYDDSRNE GTAKMNEELI NTHNECPATE FIIVGFSQGA VIAGDVAAQI GSEQGVIPAD
SVRGVALIAD GRREPGVGQF PGTFVDGIGA EVTLQPLNLL VQPIVPGATM RGGRAGGFGV
LNDRVQDICA PNDAICDAPV NVGNALDRAL AMVSANGVHA LYATNPDVFP GTTTNAWVVD
WATNLIDNG

> aaRXA02617 (1-507, translated) 169 residues
MSIKHALLVL MLDEPTSASQ LQTKFEETMG IWQLNIGQVT QTIQRLQRDG LAETAGTTVS
SNGRTVDTFQ PTDLGRELVA QWFESPVTVT LSERDELVTK IAIAESRGLN LIPLLDIQRN
TVMAELRALN KSSRDLAETR NTQRLLVEKR IFELEAQARW LDRIEALEQ

> aaRXA02619 (1-900, translated) 300 residues
MRSVVLELLE NWKESLVLHP SLTELADAAP LAQDFATVRG VLKESLDLLG NALNHGEEPA
ELAGWLSQVI TDVLHSPGLD AHVVLTGPVG RGDALPTSPV RWLAVVDSQE DPNEKISALL
TEVGFIAEPI GAATREEWEQ RARAGEDPEV YLDAGTWVAA IAEVDDKALL QDALSSRPPA
VETYEGLPSL DMVVNIRENL MIPTVKIARW AAHKAGSLAP TTAQRLVDAR GVLTNDEVDA
LTQVWTSALS LQSKRWMDHI HDQETTAWEL PALQRATFGA SARLLSEVLR SVEAREIDTK

> aaRXA02620 (1-654, translated) 218 residues
VGRPRRSAPR RAGKNPREEI LDASAELFTR QGFATTSTHQ IADAVGIRQA SLYYHFPSKT
EIFLTLLKST VEPSTVLAED LSTLDAGPEM RLWAIVASEV RLLLSTKWNV GRLYQLPIVG
SEEFAEYHSQ REALTNVFRD LATEIVGDDP RAELPFHITM SVIEMRRNDG KIPSPLSADS
LPETAIMLAD ASLAVLGAPL PADRVEKTLE LIKQADAK

> aaRXA02624 (1-714, translated) 238 residues
QGYDDSASVV ALIVLSILYL PNMMIFAMGN LIGSPLYFGD ASISVFSVHS VPLPPLPILA
ALPSEALSWA VALLVIPAII ATWVCVRNPM RLAVNTTAAV ISALCFLVLA VFAGGTLGVY
NYVGLNLLAS VGLVFVYFAL VGLLIAGIDK LRNPVEVKSV KAVAVVEPEP EEVEEDEEEH
VEEEVDEEEE EVEEGVEEVE EDDAEDPEEN PEEEESDEEI ETETEAEETN DGSEAEDR

> aaRXA02639 (1-834, translated) 278 residues
MIALGSAPKL VASDVDGTLI NSSERVPQRL RDVITRMTNQ GVTLALSTGR PPRWIHYVLD
QLSVKPICVC ANGAVLYDSA ADEILAAQTL SPEVMASAVM AARAALEEHG GVSIAVERAG
KSAYDPADEL FLVTPEYSHA WPSNDHGTFE EAEVLSEPAT KLLMRSDYLD SKQLFDIVRA
SVPEDQVHVT FSMSGGLIEI AAPGVTKALG VSMLAERLKI AQKDVITFGD MPNDIEMLQW
AGRGVAMGNA RPEVKAVSDH ITRTNDDAGV ADVLEWWF

> aaRXA02647 (1-462, translated) 154 residues
VALSVFTPVA QAQSSDALTQ LSDNITSSQI LDDDGNPVDG NETWPGSSEG SSMLSNGDIP
AAPSLSSSGK DTSDDDDEIS EEQQALIDRL SEMPVIGSIV SPPEWLAIPF AVLQGLLAIT
TLASTAASFM VTVDPSFKQT LRDMLTQFGI NVDA

> aaRXA02649 (1-1002, translated) 334 residues
VLKRFSHHSS PQVLSRKVVA SALALTTALA LAACSSSAEP DSPEVEQAVG LAVDTPRVVV
VDPGTGDLQR LQYKDIAPDA TQEQTINIAE GFAQSVVNAD SVDPQAPAGG DVTTFHLPVK
ATTEEAEFSD QEMVSATRDI SLLFGKPTYT DLSQVEDVNS TEGFTLGIRA TDSGQHTTLS

FAAPVDSTET GRMLMEQYLL TFTSLPIVFP SDDIGVGAKW TVDSRVTGES TLLQTVTYTI
TGIDGDKVNL DVEVSQRPSM GALEITDEES DETTGQLTVL NSNTTSVGTL EVDLTQPLPT
SGQVSWTTRV IYGGSNEQVR VVQDSTSSVS FGDQ

> aaRXA02652 (1-579, translated) 193 residues
MDGVDKGRRI VALLAILALV VVVAILSFSD RTAKPMQLNG DMLGQDNTET SVEYRQRASE
SLENAAVGEE AYSLVTFTQP LSPSEASNLL KGVGRVNAMV MLSAPAMDLP EPIAGETRED
VFNRQIKLVD AQLSGIGNVR APGELNGVVV WDIPQKVRVL SESSLVYSVE TLPPDAAWGS
FGIRPVDTSG TNF

> aaRXA02655 (1-984, translated) 328 residues
MSPEAKEAQD SRRNEMPEKK RAVLRKAIKL EWATIAWVLF SIVLVGVVAG QSQAMRSAWI
EDMLSLVPPI AFLLASRISK AVATRKHPYG KHRSIAIGHQ AAALALLIMG SLLIYEAVSA
LIKGERPPIG LAILFGHDVW SGWLMIGVMI SVSIPMVIVG RVKINLAKDL HDKLLYADAD
MAKADWGTAV ASTVGVLGIG LGFWWADAVA ALVISASILR DGVINMKAAI SDLGDGRAMT
YDNSAPHPLN DDVEKAALEM HWVKHARARI RDQGRCFHTE LFVEPVEGYT PAPEEITSLV
KRIQNLDWKL QDVVASVVEK IDRFQAPS

> aaRXA02662 (1-264, translated) 88 residues
MRRKLTTTLE NKPGARLGGF RALAPTSKIA LVFLLLIFLL AIFAPLIAKY DPLASGTPVQ
PPSGEHWFGT DAIGRDIFSR VATAPEPP

> aaRXA02665 (1-480, translated) 160 residues
VTNPIIPRVG IATDAHQIEA GKPCWIACLL FEGVDGCEGH SDGDVVAHAI VDALLSASGL
GDLGSFVGVG RPEYDGVSGT QLLKEVRELL SAHGYVIGNV AAQLVGQTPK FGPRREEAQQ
VISEIIGAPC SLSATTTDHM GFTGRSEGRA SVATAVVWKA

> aaRXA02670 (1-582, translated) 194 residues
MEDESVKSLN LAARRGALVT VAAASALALA SCSAGQITQT SSQVAAVDGN QAGSANDPVL
VRDVTVHLTT DGEAGVKFTA INQDTSHTSH TLESVTVDGE EVELDDAEPI ERNCSLVADI
QSELDLIEEP EVGCIQHVAT SLENPGFAYG GVVPVEFVFD TGAITIDATV SAPVLESGVE
NREVGGDTAE ASHH

> aaRXA02672 (1-1098, translated) 366 residues
MTPTTTPVSN PDALSTGTQD VHTLKGTLQR LAPGTPLRDG LDRIVRGHTG ALIVIGDDEN
VSSICDGGFE FDVSFAATRL RELCKMDGAV ILSSDLERIK RANVQLLPSP TWPTQESGTR
HRSAERTALH TGVPVIAVSE SQNTITLYVE GKSHMLEQPA ALLNRANQAL GTMERYRDRL
DQVNNRLHLA ELHSYVTVID VVSVIQREEM LRRVGEIIDG DVLELGKDAK EIQIQLSELR
GDNDRERESI IADYLVTDGI PADEEIHAAL EAISHLDDKA LLNPANIARV LGLPPTEEAL
DEPVTPRGYR TLNRIPRVQK FLMDKLIVEF GNLDALLNAS VEDLSAVDGV GSLWARHITD
GLGRLS

> aaRXA02673 (1-633, translated) 211 residues
MAALLVLLVV IALIIWAVVA LRGGSSEPEE EQPNNAVVTS SMESSATSSS SSKESTTEAT
TEEETSSAEP TATSSVAADA KKTCELSDLV ISASTNQPTF SGSAQPELFM AVHNPTAVDC
EIDLEENKLR FEVYNLATNA RIWSDVDCNP AVEDGTSVFP AGEDRYFQAT WSRTTSAPNQ
CNNRTDVPAG GYYLHTVVGN NPSPAVTFNL T

> aaRXA02678 (1-918, translated) 306 residues
MRMAKKTKKN EQLPEGMSRR QAKLAARAAE RAALEREPRP FEGLAMESQL VALQEFIPSA
TAPITVAGTD RKITLCTVLP GAAAALVREE AFGGEAFVAM QQAIRSNNPS KDLAFALNWV
INAKAGESLA TATADGTQPE LKSLLNDADT LEITTHQDFN WWLAENDNLS PEVAQHMQAA
NDSILPSHEV EADVPGAVWW VNPGGKAHIR WVRTENETAL FNALARIAAR GELNLGEETK
FAGAFRTHGI VVPVWDLDPE RPSTDYADVL VALNEKIVAE LDNDAQLNAD ERRQLENIKS
RQVTIR

> aaRXA02679 (1-426, translated) 142 residues
VAPSSGDDTV DVGTCRTLLV SELNVDLWAT DLEVDAVAGG GVVLGGAGPV DVGVIQGFAD
GIEFSFGGFL IGEANPVCDD IDEQFFLLIG EVRAFQAGAG WVVARAARCA HHGIQLFTLV
ELCLLLFGEA VVEGEGGFVH VA

> aaRXA02680 (1-1284, translated) 428 residues
MRLNKRLPAA LSGLLLSAAL LAGCSTSGTA ETTTTTVSSA AASTTTSTSS ASSSSSSSSS
SSSSDSSTTA ETISNTAEAA QAFLSTLSTE EQDAVLYDYD AEEKSTGWSN FPVTFVQRSG
VNLTDLTEEQ QAAALNVLKN LLNDDAYQMI EDIMASDQYL NDESNTTEDS LGQYYIAFFG
DPSSDSDWSI QFGGHHIGIN TTFSDGAITF APTHLGTQPS EWTNEDGETV AALSNMYETA
FAFYDSLAEE QQAQLYQGEE LDSMVCAPGS TCDYPTGTGL KGSDLTDEQK ELLIDVIANW
VGLADEETTE TELDAIRETL DDTYINWSGA TEYDTSTGDG IYFQISGPKV YIEFANQQGS
AGADIDGVIT AGWGHIHTIY RDPTNDYANS VTQEAASGMM GGGPGGNGGE MPSGDMPTGE
MPSGAPSN

> aaRXA02681 (1-444, translated) 148 residues
VGWGEGDGTV GEGGVDADVV SAELDGPVGV AAWIAEECDV VLAEGILGGV AFVVEVLIAS
HDVFDHLVGV VVEQVLQHVE GSCLLFLSEV GEVHAGTLHE GDWEVRPAGG LFFGVVVVEY
GVLFFGGQGG QESLGSFRGV GDGFGGGA

> aaRXA02683 (1-678, translated) 226 residues
MTLLENSSGD PGSDSGGARY SLNSLKVSEQ AAANAVLKAV LNDVSYQEFA DSSYLEITGT
PSADGTWGIS FGGPSESASV EFSDGSISFS PVDMTVPATR LPQMGAFYET LTEEQLGMLE
TGLAVSTVDS SQQEMLLDLV SNSIGLADTE TTATAISKIR ATLSETYLFG TPDGLTLALS
GPHVDFEVSH QGSTAKITYR DPSTDTLTAE DRVDTASVAA APPEVV

> aaRXA02685 (1-657, translated) 219 residues
MSGLRSILRL IDDLLAPVAL NDQQVALNAS MANSAWLDLT LQLCSAGVLF SWGALAIYLL
GERFQWIKPK DWAWGAGLAA LIGIPGLIFY ASAVHLGLSK QVVPTTLETW WEIPVLLIWS
AANAFGEEIV VVMWFFTRLR QLKWSVPAVI VTSSVLRGSY HLYQGISAGL GNIIMGVAFA
YFYHRTGKIW PLVIAHFLID AVAFVGYSAI GGNLSWLGL

> aaRXA02688 (1-669, translated) 223 residues
MAGRIILLRH GQTHNNVKHL LDTRPPGAEL TDLGRKQALE VGHELATYSG ERLAHVYSSI
VLRAQQTAVL ATSTFEKARD MQSGAIPLDV VEGIQEINVG DFEMRGDEEA HMNYSRALNG
WLHGDPAAGL PGGETYKDVL NRYQPTLDRI MDSHDLDDDR DVAVVSHGAV IRIVATHATG
VDPNFAFNTY LGNCRFVVLE PNGKKFSQWD VVRWTDSPLP WQE

> aaRXA02689 (1-342, translated) 114 residues
MIEVSDERFE ELVELAFDQV PQQFLDHMRN VVLLIEDFNP DSPYILGLYH GVALTERTFN
HGGLPDSITI YKGALQNYCN SEEQLVEQVR VTVLHEIGHY FGLGEEDLHR LGYA

> aaRXA02690 (1-1098, translated) 366 residues
MSTNFDTSTS PEGETKKNSS FRTAASVQTM LVAALAATAA VGVYSYNTDN SANGGESPTG
PEQSTVSTTA TIASFTTADV GQCATWDVNN EGLVSGFEQT SCDQEHRFEI SARENLATYP
SSEFGPDAAP PNLTRQAQLR EELCQSPTLA YLNNRFDPSG RYTIAPILPP AEAWAAGDRT
MLCGLQATDA SGTPQLTVGP IAANDQARVF ETGACVKVES SAEFRQVDCT EDHHLESILT
VNLGVPFFPQG APSTDEQNNF LGNTCTQASI DYLGSEENVY QSTLQTFWPT ITSNSWLGGS
HSVNCFLMSP STEGAATFNT LNGSATGTFT INGEVPPPQP ERDPLRDTAG TTASAEVGVP
VEENAP

> aaRXA02693 (1-1647, translated) 549 residues
MVSLPRLASL LTTRLATLKP ALKPATHLAS LGAQVIAELV PGIRMSPNRR RILPANMGAG
FIGAEIAMWW ALSPSLLPKP WWVTAANLAV LQAVGHAAAT GIHSILPRTN RRVSRKIYNA
THIATGAITL TTTVVGLIRH RTQIRLIGQK NFGPKETIAG ISVGTLGYGA LLITGELTQH
SINEVKLLIE RFLPPWISFI AAVSVITLTT LTLADRVLLR RILHNSAIQA AHLNRMVFPG
TEQPWEPERS GSPWSYEKWG AVGSQGRAVL SGGPRKDDII TVTRLSDTET HEPIRIFIGM
VPGRSLSDQV DLVIHEMRRT GALRRDHIVI NNSTGTGWIT DWSAHTFEFL TGGNCVTISM
QYSYLPSALS WYKDNDGPIN AARMLIDAVL HELDQLPTGS RPKLFLAGES LGAYGLAEVW
GDVEKLLGTA DGVLLSGAPR FSDAMNALRT RRDASSSERL PVIDSGRHIR FAGEPEHLDM
PATWQFPRMI VAQHASDPIV WWNAELFIRR PEWLKTPKQD HQDVFNRLRW MPFVAGWQVA
LDLFTSTSV

> aaRXA02696 (1-456, translated) 152 residues
MSMLKKTKEF FGLAPYEAEH EDAYYADEPR YEGTAAYAPE YRERDYGYAP EAPAPVAPSP
APRSYQSTIV PVELHSFEDA QVIGGAFRDG DAVVFDMSLL SREEARRIVD FAAGLCFALR

GKMQKIDSVT FAVVPELSNI STSELERAAR IR

> aaRXA02697 (1-699, translated) 233 residues
PFVVWIGMHH FAGFLATKKG KDSPTLKQQV PAFFATGAAG VAVTGVVVSA ITWASGASWG
WISEISGNSK VINPLAFPSL VASVITMVAE VFVDDFDYNA VVNVVRSISM LIMLGGLVVC
WWLFRQNERR AVTGTAAAYA VAFVFNSVTL PWYYASLISL LGTFKPPMWL IRFAAGASVF
IALMFTGSGN HQLYNIVTVI IAAIIAWLAT VVIFDDTDPA TTATEKPSPH TVS

> aaRXA02700 (1-1236, translated) 412 residues
VVPSLQQWRK PALILAILTV LGVLLTHWFA WPLTWPLGLR LPVDVEVYWQ GAREFWLADD
LYDIRYDTTF DNLPFTYPPF GALVFTPLWW IHDLFGLLVT ERVFALITLL TTYAVAVFLL
RLAGVRDRVW EFVAFAALLV SAPVYFTLNI GQINVMLMAL TLFDVALPRS TRHSGVLKYV
PLGVLTGIAA AIKLTPLVFG LYFLILWVVT KSPRGLFGMI GGFLGASGLA IIFRPSISIQ
YFTDVLFTAE RIGDLHFARN VSIRAVLERL PELGSAASIM WLVAVALVII AVAVAAYRIL
RTDLSAHNRL LAVSLVSLVA LLCSPVSWYH HWVWLGPLIV ALWLTQHRWL ALWGAFAVTF
GSFHNFLPSE NNMELTWPWW MHVLAAHYLI FSAVVTAVFS CGKMPQKTEL SH

> aaRXA02701 (1-1308, translated) 436 residues
LTNPQTAHAA ASDSASQKEA PNPSLSITVG IKDLLGLLSV LGIAAGLIAN KILIERYNWR
IDAAVYREGA LALVNGESLY AQPFDMGDIS LPFIYPPIGA ILFAPWGYFD FITVELAGNL
VVIGSSLLLL LCLYLVTNAV LSGRDKLLAF TIAAISWPIA LFAEPVFLNA DLGQINILIM
ALVVMDLLPI KRRIPRGVLI GLAAAIKITP LAMLLYFLVK KDFRGIINAV ISLLAFTAIG
AVLAWENTKE FFSSTLLNLS AEGDSGVDTT FQSNSSIQAM LYRWWTSKAD AEASSLPTIL
WIVLSLIAVA AVAYLMHQLF SRGLHVEAVM VNAMLMLLIS PISWSHHWVW LPLWAVVFFV
RYRQHRSHPK FLLWSGVILS VMLLMLPPKW WFGRDGVNVF ELNFWEKLLI SDWTWLSIGL
MITLGLGLKA FPKISK

> aaRXA02712 (1-795, translated) 265 residues
MTMTNGSRTE SGKIRDRRVA DADPRYGRRV SVSRDFSTAE ASGRGASIST QPRRDMAPER
RHTTRALVNP GVQPTRKRLM QHKLGSQQVM SVRGRRVEAK RADPKVIQLS VLVVILLCVG
VGATMGLSGT STQQTFQLQE LQATETDLSN RIESLNRDVE DARSAATLAA NATEMGLVSP
VEPGVLAVQE NGDVVEEREA NPETRPIVDI NGQQTRPNRA SSNPDETNAV TENLQAIPQE
AAAPPYQTNT VPYAATTGQA GGAGQ

> aaRXA02714 (1-429, translated) 143 residues
MFLGTYTPKL DDKGRLTLPA KFREDLAGGL MVTKGQDHSL AVYPKEEFAA RARKAAAVSR
TNPEARAFIR NLAASADEQR PDGQGRITLS AAHRTYAGLT KECVVIGSVD FLEIWDAQAW
AAYQEETEAA FSAAEDDVLG GLL

> aaRXA02715 (1-390, translated) 130 residues
VSLSEQEQRA LREIEQALMA DDPKFGKAVA SNNGLAGGGF TLRGIALFVL GLVLLVAGVA
LSQQTLWFVA LGIIGFLVMF GSGVWMLRGG GSNKISVTSR TSNAKNRQQG NSTIGDKMEE
NFRRRFEGNK

> aaRXA02719 (1-648, translated) 216 residues
MTLFQRLTNP VVLGGLAGVL LLLGSFGGGA IRYRGGVLDA LGLNFLAFGH AQGISNTVLW
VGQLLLLIGAW VHLGRRLFKK KVADDTADAA DLGLVKRTLY AMVVPLIFAA PMMSRDVYSY
LMQGAMLRDG FDPYTEGAAV NPGPMLLEVS HDWRNTTTPY GPLHLWIGDM ITTVVGDNVT
LGVVAYKILS IIGLAVTGWS IVRIAQHFGA NPAIAL

> aaRXA02720 (1-627, translated) 209 residues
LERREELQVR LQQVQARIDA TLNEHNRPEG SVRLLPVTKF HPVEDIKILQ EFGVTAVGEN
REQEARAKAL ELPDMDFHMI GQIQSKKANS IARWAAAVHS VDSEKIAEAL GRGVALALDR
GDRTSDELPC FIQLSLDGDP SRGGTPLSQV TQLADCISDT THLRFEGLMC VPPLGWGPEK
AFSQARDVLS GLEEHFDRSL EFSAGMSGD

> aaRXA02721 (1-738, translated) 246 residues
MDSLDPRNRP VRKVFTTRAG GVSQSPYASF NLGDHVGDDP QAVASNRNRL ADIIGLSPDK
VVYMEQIHSN TVTVIDEAPA DGQAVEATDA LVTTQRGLAL AVLVADCVPV LLSDTDAGVI
AAVHAGRMGA RNGIVAKTIA KMEELGAKPS RIHALMGAAA SGANYEVPEA MARDVEAKLP
GSIARTTKGT TGLDIRAGLL RQMLSLGVQM IDSDPRCTIE DEDLFSYRRE GTTGRQAGVV

WLPKEA

> aaRXA02725 (1-612, translated) 204 residues
MDNFEHSNAS IRLQAALAAG TAEDTTAIDI LLYRSGVEED FFVRDMITWA LTRMPVDDVF
TSLVADLDSE VPDRPFGASQ ALHTLSKLRV AQSWQELQAR PWLLHREDTA QTAWRTFVGL
VPDDQTAWLA HQLLQELDKG TPEIQRSLSR AMAELEGREA SISVLLGALT SAHAVATAKL
IADPDSDFMA DLEEARRVDN MGAC

> aaRXA02727 (1-912, translated) 304 residues
VVLLPLLVPQ LQVQPQLQLP SLLTRQRCAR KSKRSCAPNT ASKLDDASKA AQKAQNDAKS
AQDQLQRAQA DAKAARDEAE KAKAEAKSAA SSSTTKAAAV GAVGAGTGAA VATGAANVDT
HMQAAKVLGL AQEMADRLTS EARSESKSML DEAREAAEKQ IEEANSTSNR TLEDARANAE
KQIAEAQNRA DTLVNEADAK AKNLVSEAEK KSAATLAAST SRAEAQIRQA EDKANALQAD
AERKHTETMA AVKEQQNALE TRIAELQTFE REYRTRLKSL LEGQLEELHA RGSSAPTNNK
PSGE

> aaRXA02734 (1-384, translated) 128 residues
MRIAVTGATG SLGGHVVDSL LNKGVAASDI VAIVRNEEKA ADLKARGIAL GVATFEDETA
LTAALEGVDR LVFISGSEVG QRVAQHTNVI NAAKATGVTF IAYTSLLNLG PQSLHLLQST
LQPEKLLA

> aaRXA02735 (1-705, translated) 235 residues
MVDVVRARDT EDLVAQAASK FIEVVEAATA NNGTAQVVLT GGGAGIKLLE KLSVDAADLA
WDRIHVFFGD ERNVPVSDSE SNEGQAREAL LSKVSIPEAN IHGYGLGDVD LAEAARAYEA
VLDEFAPNGF DLHLLGMGGE GHINSLFPHT DAVKESSAKV IAVFDSPKPP SERATLTLPA
VHSAKRVWLL VSGAEKAEAA AAIVNGEPAV EWPAAGATGS EETVLFLADD AAGNL

> aaRXA02736 (1-957, translated) 319 residues
MIFELPDTTT QQISKTLTRL RESGTQVTTG RVLTLIVVTD SESDVAAVTE STNEASREHP
SRVIILVVGD KTAENKVDAE VRIGGDAGAS EMIIMHLNGP VADKLQYVVT PLLLPDTPIV
AWWPGESPKN PSQDPIGRIA QRRITDALYD RDDALEDRVE NYHPGDTDMT WARLTQWRGL
VASSLDHPPH SEITSVRLTG ASGSTSVDLA AGWLARRLKV PVIREVTDAP TVPTDEFGTP
LLAIQRLEIV RTTGSIIITI YDAHTLQVEM PESGNAPSLV AIGRRSESDC LSEELRHMDP
DLGYQHALSG LSSVKLETV

> aaRXA02744 (1-804, translated) 268 residues
MSKPFENSAL RGSSRFPAGT FTPAPKRATP AKMLAAQGKM ESLLFLRHGE QQLLSIIIPL
VALIALANFD FIPGENSLDK TFPFALATAA MSAGFTGQAI SLAFDRRYGA LKRTGASGVP
AWTIIFGKVI AVIAVTIVQI IFLGVTALLL GWSAPVGGVL FGIVTLFVGV SSFTALGMLM
GGTLSSELVL ALANLIWIVL SGLAAWAVFS PSVNAEGVLS IIPSVALSQG MVDAFNGELP
WLQLGILVGW LIITGVAANK LFNFSASR

> aaRXA02751 (1-474, translated) 158 residues
VLPIASGNDD RNLIRYVDGG RFDEIMLTGD LTGLSSFLTN AGPNARDDFD LTVLMRAAEA
GNLMVVARLL DLGANPRLTN PRGVTALHIA AIAGDDGIVE CLIDAGAEVD AVDDQGRTPL
WNAAAHHLPD SAVVDVLLRA GANVNLRDCN GVSPEDML

> aaRXA02753 (1-2493, translated) 831 residues
MLDSLKNRFT KAKGSHGVGE GAVSGDAAVK PLRKEERLAS VIQETEPGAA VEVMRRNDAF
ALPGETGWVV MLLPTHDSQF GGLNAKEKNR EDKGTIINLV VNDDIHSVVT PELLDSDVLG
VIPDADSFDR MDEFDLLRNK ARWHYGVAAI EPDTGELVVF KVPAKNSASA RGDIFSEVGD
VLSGAADLED VVDFEVIATF LEVLNETSEV DIDDEDGDVP YGLEGVNAAG VITDDLIREK
LDVDSYPSSA EIIDNIVHVF TKLQGKHHVA PQPVLHSADV VDVDAQESHD TVVIESPDDV
ALAEQVDVPD FSDGFGIDDA EVTEPEDEEV VEATADADPF GDVAEDDPFG SDDEPDFGAS
DVVAAPAPVA GMSDEQIQAL IRGVSESVQA KTGSELNALR EELAQALAYN PVQDSQAALA
QVHAADARSF DADQVGDAVT KRYVNDDLGL YVDEANFNNA LTRAPFQVAM PQFQETTPWL
GDQLRTLVAV FNGQLLDQHQ RDYEEVRAMY IALNDRSNLE IARDLGLDNK DSEFYEVYRA
IERDRDVMAG DQQRVESERR QQLQQEYEAN REEYVMAKIA EQRVEYDRRH MPRHTASLEA
VGRELTSLRD RTIEDYTARM NTLRRARAGE RANAAESRII DELRPIVERQ AELQRAAFDG
FIVDLDKFIA DHREDDLRLA SVNEQKLAAD NRVAQLTKEA EERIEGIRVE TDKMIASQRK
ALERQEAEFA AELKRRDTIV AASEERAERE ITTARLDAEA ALKRMEEQIR VNNEAHEAEI

VIERDRATQA EANSMTFVES VKQQDRSNNI ILIAVLIVGL IAGMVAGAAF F

> aaRXA02756 (1-891, translated) 297 residues
MTSPYGSQYP GDDNNNWNSQ FGNPSGEQNY GQPYGAPYGQ PYGQPFDQGF NAYSSPIPPE
VPQPSMQEAQ WRSFDLGTVF GQAWKGFTAT WQAWVLSALI YFAVLLVLMF AWILPMVSVL
AATSSGSDSA AIAATGGTSF FGFMLMIVLA FISFVYSLNC YRNAARVVRG EQITIQSFFK
MKGLGKALGI YILINIVIFI GMILLLIPGI IAAVVLIFAV PVAFQLRDAS IGDAFSASWK
AVSKNVGQVI LLELAIFALS FLGSAVIIGM LVTTPLTFLL YAYAFQTASG GPIMQRQ

> aaRXA02757 (1-546, translated) 182 residues
VVKLCLDERV STDPDFRAAL ERWYGHLIRK VSRRARNAAW DRVQDLPGVT VEDDAAKVRA
FLPSAVVDVP ADIKKLQISG TELPLDEPNP INDEYPVIYI DESLKMTLGK AAAQVGHASM
LLAAHQPFEW VEQWEAADFA LHVREIPSEE FLRLIESPGA VPVRDGGFTE VAPNTVTVVA
IP

> aaRXA02765 (1-759, translated) 253 residues
MSNQLPDHVR DAFQVGAGPA EQLGQAWDFG FRVGNTVFAK VTAPEVSGWS SKTRETLKPE
GVRVVRPIRS TDGRFVVAGW RASVFSTGTI SKRVDETVVA GLRLADALVD THAPEPVDNV
FNRADVQAWE EQPGRIGELL EPINRVNQVG HADMLATTLY AGTQPPAVTD LVPVLRPHGF
TAALVIVDGL LLGAVDEGIL RRFSHLPEIE QLVLRAFLFR RNLQEFSENN DPNVISNLNR
VESTLVSYVS DKI

> aaRXA02766 (1-393, translated) 131 residues
MTTSENFYDS VGGEETFSLI VHRFYEQVPN DDILGPMYPP DDFEGAEQRL KMFLSQYWGG
PKDYQEQRGH PRLRMRHVNY PIGVTAAERW LQLMSNALDG VDLTAEQREA IWEHMVRAAD
MLINSNPDPH A

> aaRXA02770 (1-1320, translated) 440 residues
GINRQVIYTI NEDATYSDGQ PVVCDDFLLS ATAGQMPELF QSHVPLTSQI ERVDCVSGSK
VATVVFKEDL GERWRYLFEQ GDLLPAHAVA SKAGMTLEEL NQALKDKDPE ALTEPARVWS
EGFQLSQFDP ELQTAFGPYK VDSVGEFGEV KLVRNEFYSG DQAVEAEITM WPKGSDLSAI
ADNGNLQIAH VVAWESEPWV NRDDPLNPYD IKEEVGVLTE QLTLASAGVF YAAEARQAFA
ACVDQEAVAA ASSSISGIDV PAVGVHSVRH QNPVVHQIGD LPAQHMAVDI NAASALAGQS
IRIGYDGPDE RKAAMVEAIR QSCEPAGITV IDASQEAVSL NDLSRTEVSE WGYEQYFEGT
LDAVLRTVDP HREYENANTI GTDAESTRRT EEQLWAEVPS IPLAAQPRVF VIDRTVGNVV
VNTDLAGIGW NMDRWSRSEE

> aaRXA02774 (1-471, translated) 157 residues
PCPPTQKLLY AQMREIAAEL TACDATRGLH AEVAAEWLSD AITGEPTSIE IDPHRNLFYA
LNVEHPRLHE LFAGYATRLD ELDRAPQQCE SRQYFLDYVC ADNPFGSDKP EGIIVLLADH
VLAADPVTNK PALKSEAFPT VTDYCRTHSA KPTDILI

> aaRXA02775 (1-225, translated) 75 residues
MTTVQVSTRT VREHRFTVPV DYAVGATISE IYAACAMAEK KANNLGLNTT KDDWARVTVT
DNAVVFIVEN VIGNT

> aaRXA02776 (1-342, translated) 114 residues
VLYPVEAGTV SLVDVKKAAS RAFEQWEKHN ESAGDVGDDL SLQSIVDLIE RDTFPTDDEQ
ELNNVALLIG ELLVREAGGE WTSYISKKND EDESLEIFGV FGTGGTEGLS VVGN

> aaRXA02777 (1-1107, translated) 369 residues
MNRPLQSQNF SITSEWANAT FNDIEDSLEG SFDIEPGQYI GRGEYFVATS GTGSKKFIKV
VLGDGIDSEL NRRIEGEILA SSLHLPSTDL ISPVVIQYVK ESSNFPGDFY IVSDFKDDTE
TLELSKASLP LTDLAKIGAF LFRLESVTVP PQNPARRAMD VLDGLSLLAN KGNIETGAQL
TKGTIQALEI INQEATNIEN ALEKVTKVGS RKFFSHGDLK FSQFLINGET GKIFLCDWEE
CGSAHFANDL CFLAGDLFYS TIRELVDTNI KNIKGSSIIQ EAYDNATLEA VSKVNAILTG
YSSERGYSLT SDEKRIISIR IGLAGLFRLY TVSAKSNELR PRELALASIG MQITLGQAPN
LVFTDSKVV

> aaRXA02778 (1-225, translated) 75 residues
MQVIETLDPD QRAAVLAAAI PREAKILGRK VTLRPGWGNM RVHVVIAVIF IKFLQPDLRQ

ALLTTGDAVL VEDDT

> aaRXA02779 (1-279, translated) 93 residues
MGEYFQVVQN IAMTLGAGES VDLVVREYIN DVEGNPTIYH GMPLRTEYRA FIDLDHCDPS
AGEPEPRLLG VTPYWHPSVM EKALRLCFKR CWC

> aaRXA02780 (1-327, translated) 109 residues
MSKFHTHRDD VISRITALLP QLRAQELQGQ WSVDIMKNGE DFYLIDMALM CESALSELLT
VTDEYATVEP SVINDFANQL VIDYDEHDMG FDRDFPAGVY NTRQASAIN

> aaRXA02781 (1-1191, translated) 397 residues
VVAALVFGFL LPTWERGLSD AALKFVFEGG PDAAREVLGT IAASTISVTG LIFSITLVVL
QLVSSQFSPR MLNGFLRNRI VQATLAMFLG TFVFSLTVIR YVWSEDEDIT GFVPRASVSV
AFLLVLGCLG LFLAFIRLIT FSMRVANAIS EIGEETMALA ARIYPVQSDD AGPVQGPGWS
PRPGDPREEI RVGNHGSLVW IDYRKLVSWS TEHQAVITVD RPVGDFLVEG QPLLRVWWDG
ELSDRDRRVL HSAIEVRTER ELHQDVAFGL RQLVDIADRA LSPGINDPAT AAQCVQEIHR
IFRYLVTVIE PSPYIADDDG RVRVVHQPQR IADMLYEVIR EIHLYGADSA MIPRLLRTMV
EDLVTAAADH SLPAVERARG ILDDETDEDR DSDTANV

> aaRXA02782 (1-672, translated) 224 residues
VAPALNDLAT THPKLAEQIA DPQPSGVSAA AIIPTISRGS HTQLTWQCSK NHDHQWVATV
KDRVRGTDCP TCANTGTSRK EAELIEVIRA LFPNTDVQQG ALINGRTGNQ GASPSTDVLI
PSKNLAIEFN GLYWHSELFI KDKHYHANKS ALAEQAGVQL IHVWEDDWNL RRDIVIRMIA
HKLHATHNLS AVLPTETTDS RVATTAFAVH SHCRWSLVHA LLHS

> aaRXA02783 (1-549, translated) 183 residues
VVSGSRAAAF LNSNHIQGAV SATKHFALCD NNDDIRALLS VRSPKNNARM YRKKGTWEIQ
RYATLGNVPG GFTRLLKFAE HTLNEHSTVL KQWISFSAAD VSDGSLYRTA GFTAEQQLAP
DYRYVGGATG WRRTPKESFQ RKRFRDDPAL LWNESWTEHE AALNNELYRI YDAGKTRWVK
NVA

> aaRXA02784 (1-186, translated) 62 residues
VAFAEGYYQE MAEVVCEARE EGITHEDTLH MLNDMMAMKR SGEVLNTLAD VLYANECPEY
RI

> aaRXA02786 (1-807, translated) 269 residues
ILRNLGQSLG SLHAATADRE EDFNILLNRM LAKYPATAEM QKNRDRLLPA AIEVGKKILV
DAGVTVPEVV EEFARVARRR LISGRHRAFT PFDLSPDNII VAERTHFLDY EVAGFRDATF
DVACVIAGFP QFVFSRPISD DEVDELIESW VQEVRGIWPN VNNEERLQAR IVTALIGWAL
SSVAFMKLGS ISGMLNLLHV TEDGNTTLDV SNLDELLIPR SAEDDELVQQ DLHDTFSALQ
RFAARGLDSR FPEVARFADD VVRLFLKND

> aaRXA02789 (1-546, translated) 182 residues
MKVSADTPGH DDPGPGRRLG LDVGTVRIGV AASDRDAKLA MPVETVPRET GFKGPDLADI
DRLVAIVEEY NAVEVIVGLP TDLQGNGSAS VKHAKEIAFR VRRRLTNAGK NIPVRLGDER
LTTVVATQAL RASGVSEKAG RKVIDQAAAV EILQTWLDAR TRALEPQSTD TQDFDEKGNF
PG

> aaRXA02793 (1-702, translated) 234 residues
MKSAAVPTLD ALGVLDRVVT KAGAFPAGYY DADLSERVTD IPTLSNKIDA SGHVLISKEV
VVAANPDIVF GETDTINRAS MASSNIPVVE EPAFCGSIDG DVSFDDVWSQ ISTYGTIFDR
STEADAYIAT LKERVSEVSS RVTDSGKTVA VLYPTIGGGV TYAYGRGSMA NPLVAEAGLT
NVFADQSERV FEVTAEELIS ETPTHHRFTQ RRFPFRHRRR GGQSPRVQRT HCSE

> aaRXA02796 (1-549, translated) 183 residues
MRLFASITPP IEVTEHLINA LRPYKDDLRW SDPDNWHITL AFYGELPDGA VEDLIEHLTS
AARINEEFTI RIKGAGSFNR KNLWMGVGGD TKDLRRLMAD CLIDPEERRR QRAHLTVAKP
TQRQRSRDWD PVIPDLVHAL SIYEGPEWPV DEIELVSSEP GKGRSGGPLY TTVATIALSS
ALV

> aaRXA02798 (1-1425, translated) 475 residues

MRSVLDYWIM TLAPSTNAVS QQTRRNPSQA PRLLHRLHFF AGIICAPLIF IAALTGLVYA
FSPTIESISN QEMLTVSKSA SDTALPVREQ VSIAQELHPD LDLSGVRLGD DSSTTRVLFA
DETLAESTVR AVFVDPYTGE ITGDTTQYGS SAALPFRQWV SQGHRMLWLG EPGRIYSELA
ASWLGVLAVG GFALLWLRNK KPGRLRKMVR TGGRGRVKTY RRHAALGTVA GLGFVFLTFT
GLTWSTYAGS NITDLRTQLN WTQPSVNASL TAAPQVDMHD EHAGHHMHME SATSGSGSID
LVAATAISEL RTPLTITPPA QDGLAWTATE NRDAYRFTTD TIAVDGDTGM LTNRLNSTDW
PLAAQASAWL IQLHMGTLFG LPNQVVLGLL AASIIVMIGL GYWMLWQHRP REGWPSAPKR
AGFEKPTWGT IALGVVVIAY GLLAPLFAVS LLVFIGLSLG VRFISRMSGR ADTSN

> aaRXA02799 (1-273, translated) 91 residues
VARNIEDIQR DIERTRRQLA STLDELADRS KPSNLVDDAK NQATAKLQES NVQKVLLGVA
AVVVGAVVFS VVRGRKKAND LKEIQRLLSE R

> aaRXA02812 (1-567, translated) 189 residues
ASGTDASTIT LDQVALPVAT NSGASAAVAL ALAETPEAAA AALNRDADVT ATGAADSPAF
ATVEGAELPE GYTFEAVDSA EVPVWAVAIN AGNGISEDQA RAASDFSSFS FDTGNADNSA
LESVLTQASS ESAAETTEAQ PSETPVEPAA ASPSDTIINL DTSSNMDRVV DGSQETYHTV
TSRTLANLA

> aaRXA02815 (1-552, translated) 184 residues
WLRSTKEFED QPVIPAFEVI ATVASEFAGD DGNYSNEFPV EDLVGYVDAI TEAGGYAVLD
LQPGRANFLD QAKMYEELLK RPNVGLALDP EWKIGPDEQP MTRVGSADAA EINEVSQWLA
DLTAENDLPQ KAFVLHQFQL EMLTNRDQIN TDHLELAVVL HADGHGNAGD KYATWNMLRE
GLSP

> aaRXA02817 (1-399, translated) 133 residues
MILGVPIQYL LYSLWNWIVD TGFDVAIILV LAFLIPRIGR LAMRIIKRRV ESAADADTTK
NQLAFAGVGV YIAQIVAFFM LAVSAMQAFG FSLAGAAIPA TIASAAIGLG AQSIVADFLA
GFFILTEKQF GVG

> aaRXA02818 (1-606, translated) 202 residues
SYSRKFLTQV WIRDNVGDYK GLTDTAFRKK LQRDLAYLRR VGVPIEQFTV TSGIAEGQQA
YRLAQDSYKL PEVEFTPDEA AVLGMAGEMG HNQELGAFAR SGWTKLAAGG AQRDLSTSTA
LTNAGDLGSL SAKTLDAIIK ARQLGKQISF EYRRAPKDAP SLRHMDPWGL VPERDRIYLV
GFDLDRQEAR TFRITRVRNI KL

> aaRXA02823 (1-270, translated) 90 residues
MTVRNPDREA IRHGKITTEA LRERPAYPTW AMKLTMAITG LMFGGFVLVH MIGNLKIFMP
DYAADSAHPG EAQVDVYGEF LREIGSPILP

> aaRXA02824 (1-528, translated) 176 residues
FYETGEALDP TGDSLTISST TTAPSTSTTS TSASTSGGTA DCSSGALGVV TTGTNDGMLG
TIQEVNNTFA IWNNLIVNTE RMFCNIDTLK ARFDTDDSSD SATSATSGTT ASTGTTAATT
AGTTGTTGTA STASGTSGTS GTSGTAATVA GTTPTDNGVC TASGSLGVTQ ASAQWG

> aaRXA02825 (1-384, translated) 128 residues
NVSATEASGS ASVSLSQSGS QAFADFYTPG TQLDPISFSA TLGGDASCAT GSTSTTGAAA
TANTDNTEGV AGEESTTPAN QNSQFQIRQA AADSTGLDTT TTMLLILAAF VVAGGSMTRF
TVGNPTGK

> aaRXA02827 (1-423, translated) 141 residues
MYEQQKILNE VSEKRLQAIK DFTELGSGFK IAMRDLSIRG AGNLLGAQQH GFIDAVGFDM
YSQMLSEAVX RKQGKNSQVE KXXVEIDXGV DAYLPETYVA DXRQKIEIYK RIRELDSQEM
LDELEDDLLD RFGEXPEEVA H

> aaRXA02838 (1-462, translated) 154 residues
TVPLGDGQGR YIAKIPSTAF VGVSENKFAN LALAEAIGME VPARELVGRA QFEGVPPEFE
AMTDGLVLLV RRFDRAGDGV RVHMEDFAQV FGLYPARKYD GAASHDIAAV LGSAVSIAAG
LEFVRRLALS VVMGNGDMHL KNWSLIYHGR GDVP

> aaRXA02840 (1-150, translated) 50 residues

MTVISGALNV LLPDATDWQV YEAGSVFNVP GHSEFHLQVA EPTSYLCRYL

> aaRXA02841 (1-279, translated) 93 residues
MFAAFKSNLP TIKKLVYEVI NGVDAALNEL ERHVTNESVR ARELPNVQYK ATAGRNFAIS
KLVQNLRRIN KAQNNPRGVP THATVILLKG DGS

> aaRXA02842 (1-342, translated) 114 residues
DAGFVYFGEI DDAGHIFGLA GDEYRGGIRR VDTHVKKVLS EVSRRSDELG EDWLVVITTD
HGHLDEGGHG GTTDRERESW IITWSPHREL PQWPEEIAPX ELAELMLVER RTLR

> aaRXA02845 (1-615, translated) 205 residues
EDHTSMLTHF SAAVGMHDRD PARFPGQGDG SYPDLFWLYK NALNLVISSV LFTREQMDNM
LDQMDEHFTR AGIPRIAINI ERRDDALMNG SLERALELQE LIDASQHDDP FDDCPTCQIA
GKAALAMAAD DYDETQNLVS QIISYGSIGC VMEPETTLAA FMLRVLKSGD ADYARYLQDV
SAKANPEFQS LDSVGRHLEF LGITG

> aaRXA02846 (1-573, translated) 191 residues
VNGLSIINAV NNAWSVRKRT DWAKFRILAG ALVLGSVPAV AVVYFLNGPW LLIFVGAMVL
LALGVSLFPT EKFALKQEAK LPMVIFGMIG GFMSTVAGIA GPSLTVYARL SRWDYRDFVA
TLHPVLLVAN TVSFLLKVIL IGGLDFGGAP AWLWIGAVAM IFVGAWLGEI VNAKVSTPMA
KRIATLLAAA G

> aaRXA02847 (1-594, translated) 198 residues
MAVQGQFYLF AILLSMAIIL IRRYRPEYSA VRLATPVLAV LTSVSFFSAI LWHFIDQSVN
YYSTFTRFWE LGLGALLVLH APRILISAKT KSILAAVGLF MVLSTGFFMD GAETFPGFPA
LYPILGACLV ILGDGKISVF LSRKWMLWLG DIAYPLYLWH WPLLIIFTAL FNQEEPSIWL
GIAVIMLSLG LAQLTNKY

> aaRXA02848 (1-399, translated) 133 residues
MQIVLASQSP SRRRILNSAG VEPLIHPADV DEDALLHSLN GSAPEEIVRQ LALAKAQVVA
PSYPGDVVIG GDSMLLIDAT LQGKPHTREA TIERWKQQRG NKATLITGHA IIFGDEVIVE
SSSTNIHFAE ASD

> aaRXA02849 (1-282, translated) 94 residues
SPYPVMISTS ADASNVTVRI MGVDTTSVES INNGRWSTTQ PNTVRVSGSD CVPSTGAPGF
TTSDTRIISD LSGNEITREP VTTVYDPSPN VVCS

> aaRXA02856 (1-249, translated) 83 residues
LPHAKELAHE LCLLPTPAVP ALPTDSGAQF DIHQALSASL ATYARNLTLL SHTAENLGNR
ALTGLAEIED TDDQLAHALE RLT

> aaRXA02858 (1-1026, translated) 342 residues
PEWKKFNSGD AARVVPDANA ELDIIGAPAL LADRPSYANV KTLSRIFAVM RSLGHVTAAS
PVTVFFSSHS VLSNVDRGSE HYSGPNGLGE WTSVGRAVAT NWNGVVDALD EAITVKEVNS
LFTEDAATRI QEAQAAVQAA REAEEQIAKE EAEKVDPYDN SPWAAAGIDP IKVSIDGRTI
YTLRTYLGGQ PVFLGKFGEI FTFNSQKSLL RWLVEHDDHD LARASTWSDL MLGINAGETE
LLVHSDNVYS FNGLVKDINT SVDAVDTQQM ARAYELMADT ADWADDDSMN SYFLANPRMQ
DYISYMLGGS DTSGYVPHAP FNDHSESWRE LEEMLIKRFS KF

> aaRXA02862 (1-636, translated) 212 residues
MNTNLPNLYT AFDLDRSESS EALGVSLSAR DLRLEQMGIA QDDPRRAQTV QAFAVLADPA
KRATYDAQLE AGVPLTWAQI QHLGNFGTLP STPTAQPFAA PQPEPSPEPQ QQWNSGQNYA
YGNPTMDYQT QQSYNPMQDQ TQASMYAQPF ANTPAPMYNS NQVFNRPTAG TRLWMAILDS
IFAGIAGGIV SGIFGFGSEF LTSVIMILVL IV

> aaRXA02867 (1-606, translated) 202 residues
MSATNPDALD VQHVYPIKTK KTPLAVIFNI ISGGLIGMAE LVPGISGGTV ALVLGIYERA
LHNGDLLIDL IKVLIKDRSK VKEAAAKIDW WFLGAIGVGM VVMVFSMSSI LHTVVEDYPE
ITRGLFLGMV AVSILVPLGM MDMRDAKKRL AIVIPLFIIC AMLGFFGTSF TSAPRTDPSL
IFVFICAAIA VCALVLPGVQ DH

> aaRXA02874 (1-480, translated) 160 residues
TELNRDTHHL WVVLTTDSDD FDADSFTTEV IRITGYSRHE VNNGLNAMAA MTNLPHLRAI
QERYYFLSIR YLASIMIAVA KADPTLWEEL DLRITDALTP VTAGEVMIQS STLSKXHRXP
GSKNSTPNPH QSPHRKRTMF TSTPLMRRPM SASKSAAPTA

> aaRXA02876 (1-663, translated) 221 residues
MTSDKDTEQL EAAGTEILMP RRRPAQQRSR ERFNRILTAA RSVLVDLGFE SFTFDEVAKR
AEVPIGTLYQ FFANKYVLIC ELDRVDTAEA VAELKKFSDQ VPALQWPDIL DEFIEHLARL
WRDDPSRRAV WHAIQSTPAT RATAAATEKE MLEIIAEVMR PLARGAGYEE RMSLAGLLVH
TVSSLLNYAV RDVNSSEEDF DSIVEEIKRM LISYLFSVAT G

> aaRXA02881 (1-666, translated) 222 residues
VKKKLMLPLI VAALGLSACS SEPAAAPLEA EPLHNLLIDG SESGLDNATE GNDTSLSGQP
INLTVVNGAL DIDGSCGKAL QAVEDVNLDS VASASRALAS GDKQVGIAMY STAEDNDISP
MDLYADIANA CEDPVVDSSD TTYTFGKLDD APDGAVGFTL DIEVTPDNQG STVMMIQELG
NHHIIVAGLE TTPEETATVF EAQRTKLEEG LQLKQNWQLG WV

> aaRXA02884 (1-462, translated) 154 residues
MLLTILWAIG ITAEGMTGAL AAGRQKMDLF GVSVIACVTA IGGGSIRDML LGHYPLVWVE
KPLYLLLIIG AAILTVSISF LMEHFRVLFL VLDAVGLSAF AVIGTQIALE MGYGFIIAVV
ASVLTGVFGG VMRDLLCDRI PLVFQKELYA SIAF

> aaRXA02885 (1-1536, translated) 512 residues
RGKGFHFTST EFAGSYSLVT NGLNDVAGEY VGVMRGDVNN SAVLFDVDRW SGHVVCADSS
INTSPLLKRP RVVDMWGSKI SQAALLNNRR VVHLVLNGAK LDEMGPKLES MTAHVDMTSG
DLNMFELFGK QEDELSLYST HMDKIVFMTE QALGDKTSEL ALLRGKLKEI ITAFYVDMKM
WALNAGENRD KLRLVGVPHE QIPLLSVFVS YLDQEYERQK YEGTKDPEMF RAISVLRLTY
KDLLDTHGDL FNQHTADGID SVNSARRVIY DFSGVLRRGA GVAMAQLVNV IGFAVETLGQ
GDVVIIHGAD GIVDVDVQDY LANQFAYMAE RGGRVAYLYS SMDAMLGTVG FNQFQRAAYT
ILGPMNVDSV DTYQSLINSQ IPMDLARLVT TQNSGASYLR RGSTNVVFET NLALGVNPYM
EQRRKIEAQR GQRRSKRDKH YGGGTTMVGT ADLDVVAIQA KAEHREERFD EKSARKMKEL
DDVEAKELAL KTGPKNLDDA LAQVEKKRLA KR

> aaRXA02888 (1-429, translated) 143 residues
MYSDKLILLF LSEQDSSYEC CVGLLDGSDG RDYIEKLLKG RKLKNHFLEW EDINKADVAR
EEIYKGQLVH LVFVTALSTP GEISFVFPGQ SLMSATLEED FAALVLEEER TSFRPELSHL
WSLPVGWVAP GLEGFVERNS EAA

> aaRXA02892 (1-504, translated) 168 residues
MEGPEAFTVA AIAAAAGVSP RTFHNYFPSR EDALVQFVVI RVQELTDQLY EFPTSVPPRD
AIEQLVINQL RDGDDAMDSF SAMFRIGEIL ENLDPIKCVI DKERLIAPLL EFMVERDKDL
DKFDAATLIH LHAAAIATSL HTFYQASEPR DIEDGVALIR RACAWIKK

> aaRXA02898 (1-1626, translated) 542 residues
LVVDSSGRYN VTITGLTTTE TDSATALNLQ MSEAGYLERY TDGATVPSVM LSAADGTTPQ
ELVDALAAEL GSNFDVETGE ALVEQATGMI TQALSFVQYF LVAFGLIALL VGTFIIANTF
SMIVAQRMRE FALLRALGAA PGQITRSVVL EATIVGLFGS ALGVLGGMGL VAIISAVLNN
LGMPMGSSVG LTPSAVVTAL VLGTVVTIVS AWAPARRAGE VKPVEAMRNM ETTTMRSMMG
RTITGGIVLA LGIIFAIAGA MMTDSSTATR SILVGIGALF VIVGTFLFSP ALSMPVVGGL
GKVIGAPFGS VGSLAATNSK RNPRRTATTA FALTLGIALV TAIGMLSATM KDAVSDMMAE
QYTADYILQG PTNGSITMPK ESVNDVRDAE GVADVVLVSM NSASVNGQAS YSQLGQSVTF
VADGDLSKVI STESIDGSLD LSNPGVVTNQ TFADENGWAV GDTLQLESMG QTIGDIELIG
TFTGNDAIGN MIISESSLAD TPAADTAVPQ MMLVVGEEGF DKEQLRTNLE DAVADYIVIS
VK

> aaRXA02899 (1-480, translated) 160 residues
MNSGSTMRRI SLRNIGAHKV RLFLTVLAVV LGTSFVSGAM MFTNALSSTF DEAIASSFDG
VDVVVSPNGA SEVQGVPVET VESLREDSRI NHLNINGSQT VVLADADSKA IQTTGGSSLS
IYYSADDAVA QAPELAEGEA PTGTEEVLAS KAGAEANGLE

> aaRXA02905 (1-474, translated) 158 residues

MDSVNVLLIG IIVAIAALLP RKGKYGPIAT LLVAGDWLGV FLLSILVMLV FDGLEDLVQG
FLDSIWFGVI LLVTGIVSFV ATLVSKTDST RKLDGFLAPV KTPSWKTVGA GLILGIVQSA
TSVPFYAGLG YLSVGNFSPE IRYGGLVVYA TLALSLPI

>aaRXN00022 TRANSLATE of: rxn00022.seq check: 7277 from: 1 to: 1701
MSAPTIYPGTKTSIDPITMDDARIIFFDIESLHNIFTVATYDSLSHHVDVFYLLDHTTSP
QITVLPHSMDYFDQTRSDAVMAAIIEQNPAFAEIKGSPITTADVALHNLGDTNANRRWQS
NVLLARLLGGISVRGEVPEHQSHNHLAKQFAEATLVTRDFDVNYDPTSAHPFTAGFNSIN
YDTTLLSLYFAMLTSNIGSTPTYFPVITAQELRAHNDKLFSPEFIKNMPKYLWDRDSGAG
LRAASGFRNAMLKSGRHIDIQRLNEKQLFVGLKRLLGLLGHQILESDRLSGDDAHVDTNE
DVLDLIAYNVSDVVGTRLLAEDPVYSGSFDLRAGLLSTYPETVFDHDGTFRQPSTQMRKD
RLTINTSSAQFAARILAPYRPLRDVPDAIGDMPVVSYLYPDAAVAEATGQKQVNVLDESK
KFFYDNITDPEARAAFDEVFAFYADIEGRNFNSHNEAIDTQINQLRAYLNQVVAFDAAGY
ALYDVRTRFEQIFPKDRSYINDATDMTPRAVSSFDDLVALCDDIRGVLDRGLEISSPNHH
EMVDAMRKQLHYIQAFYRAWDPSTPLQ

>aaRXN00027 TRANSLATE of: rxn00027.seq check: 3923 from: 1 to: 366
VDERSRFARSVFPDGEEPDPRFTLANERTFLAWTRTSLAFLAGGIAFEAFQISGLSDTVR
TTIAVFIIAVGMIIAAGAAVRWMNVERAMRKQKPLPVPAIIPFLSIAALVASAAVLVLII
VQ

>aaRXN00028 TRANSLATE of: rxn00028.seq check: 5847 from: 1 to: 1947
MTLTASSLEAGKMSFSGGYIVGETMIFLVDPDEVEIRRSPNSLHVLRNGSDILRRNEHHC
WVFENFNKPIDPPVRLGPRDIICPSALAWVLQQHSISRSLSHHLHADKITAGEIAGRPTW
ILREEPTSGGQDPSRLVSLEIDQEHGVILAVETGQERLEATEISFPDTLPNPSWDGAWEP
FHYPDSTPHTAPDVAEIPGYIQSLPPQSEDPRRLRVFVNEIALEGDFPDYRQGQSVRLTL
GISSSPVPLEGMTTRRRGRVRNLGEEASPGDDGMPQWPILLTGDGWTALAYTPIPKRGDA
EIQGWFYYSAYGIVDVPTDLRVERIFAGIGTSGTNERLWQEIDNTSSAYHSEDWWIRDVV
LDVTLDGAVPPPLRRDVFTAVDPIVAGDKLWLCDVHFPVARCWETTTGRYLGQTLVPAPL
RDRSYVLELHSDQQLGAVAASGKSGWILTPGQAVATKAPDWTPPTRATDLPQVPSPWEIV
AVRGQGLFELQVETSRRTALGRVNATGGVDIGELPPNGYTISSVVQIGDEYIVGRWVEEY
RLNSKLEVISTKELDISASGWKSKGTVAYLSEDTHICFFDQVSGAELPSLGIAEGHQGEV
MSATSSESIVLIYRRNPNNSMSIVPTSVATYDNGTWTTMPLQEAPAELS

>aaRXN00033 TRANSLATE of: rxn00033.seq check: 3319 from: 1 to: 1335
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YGVAVAIAAFFAAALSDLWGPRKVMILGASIWIVFELIFLTVALTTDHTWLIFLAYGLRG
FGYPFFAYGFLVWITATASPKQLGTGVGWFYVAFSAGLPTLGALVATISMQYVNLTFYET
LWVSLVLVVIGSLIALLGVKERRGRHPLVANPDDVKQTLGQGFKLLRNDRRARFVTYIRT
INSIPTYAMAVFFPSFFTDDLKWQLSWFLILTTVIYAVNLPFNPFFGSFGDRHGWARTVF
WGGSIGGAVTLALVYFIPMFGVQAGMSNGVVFGITIAAGALFGVSLAGFVPLSAIAVSLD
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PGFDGVPALAEDAHIEDLADVNANA

>aaRXN00056 TRANSLATE of: rxn00056.seq check: 471 from: 1 to: 750
LLNRVSRIAGASAITLCIGLTTILSPTSTAQSLEQITPLPESAIDLNAEIHVNTSDISAE
QILGAQDEITTMYDSHDPYEYFDTLTDIEQRSIIAALKRDPSSLQQRQETRLAAQSDPYK
IYISGLEMLSCINLVDVVSCGIANQAATKANNEAVARYPGDSLRNGKGDAFRHCSWNALM
TIRIGSNGAERIATNHETIGDGPADENAMDLFNNAQGRQIGAGFINSKDETSALAICALW
TNLGRLKTLK

>aaRXN00067 TRANSLATE of: rxn00067.seq check: 5053 from: 1 to: 486
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>aaRXN00077 TRANSLATE of: rxn00077.seq check: 3953 from: 1 to: 1362
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TPISQQWIRNLHAVILRSQESHEVFTAVGVQNQALQKGEYKTQPNSPQRSDGSVHAYAPV

EDTPAEMARFISELESKEFLAAEKVIQAAYAHYAFVCIHPFADGNGRVARALASVFLYKD
PGVPLVIYQDQRRDYIHALEAADKNNPLLLIRFFAERVTDTINSIIVDLTTPIAGKSGSA
KLSDALRPTRVLPELHDAAHRLQESLFTEIRSRLDEEGKRNGLEFLLQRIFIGSPFNLPE
GYNAFPDSYCLTLAFNSNSPKQIFHPLSIVIAARDGKRASSDLVAATSIGYNFHAYGREV
EPVVTESFRERVKIYADGIVDHFLTELAKKFQQN

>aaRXN00080 TRANSLATE of: rxn00080.seq check: 4040 from: 1 to: 1530
MDILSLLMEGFAGALTPMNLLWVIVGCLLGTAVGVMPGLGSSMAVALLLPMTFALDPTAA
FIMFSGVYFGGLFGDSTMAILMNTPGQASAIASTFEGHRMALNGRAPQALATAAIGAFIG
GIVSSFIVVFLAPTLAELSTAFGPAEYFALALFAFVATSSVVSDSVFKGLASLIFGLGIA
TIGIDSVTGIERFTLGAPQLFDGISLVTVTVAILALGEVFYIAARARRDKANLETRSAGR
PWLTGTEFKEAAPAWARGTIIGLPFGVIPVGGSEVPTFLAYSTERALDKRRKDPQFGDKG
AIRGLAAPEAAGNATTGMAMGALLALGLPVSATAAIMLAAFRQYGIQPGPLLFDRNPELV
WALLASFFIAMIVLLFINLPFAQLWAKLLLIPNHYLYSGIALFCGLGIYATSGAVFDLLM
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>aaRXN00087 TRANSLATE of: rxn00087.seq check: 6949 from: 1 to: 528
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AGFAAVAIIGAGILAGGGFRGWFWFGAQAGLTFAMMFCHWLAYQSMSVIRALCPYCMGVW
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>aaRXN00096 TRANSLATE of: rxn00096.seq check: 1688 from: 1 to: 303
MTNAGDNFEIRMPSGTDDPLSDAEIQKYREEINRLDREILDAVKRRTKISQTIGKTRMSS
GGTRLVHTREVAIINQFREEIGEEGPALAGILLRMGRGKLG

>aaRXN00097 TRANSLATE of: rxn00097.seq check: 3726 from: 1 to: 1176
MEVPSLFTNFFAVNNPDSPPARQKTKLRELEHRFWQEHLPGDDDDHSTAISSLAIVTGLT
KAQVSRISIAFATLADLPELKALQQKLYHLDLSRLITISNELAGINPDNLAGADAILTEY
LTATSPNQILPSPASIGRKIKEIRDLLDDARATGSRGTQDDSSFGVTFSPDGTAEIGASV
DAVDGHIINDAVTQHAKKNDLTYGEAFSDILRNNIQVKVVLNLYTAKDLANAPVWASGIG
WLDAKTGTFWSEKANKEQDMDAAAKISTDKHDPPPALRDALIGRDGTCRFPGCSVPALKT
QADHRIPYEEGGETCLGGIGCLCQHHHNMKTDGRVTYLLDPFSGIIVWLMGDGTWAVSEP
NGPLNPKNARWAQTVAQHRARHHKRWVKEDAK

>aaRXN00114 TRANSLATE of: rxn00114.seq check: 4118 from: 1 to: 489
MKLLKFAAAGTFALALAGCTQTESLVATIESATSAAQASGNDVEGDQTSAFELSVGECFN
DTYEEEISEVPIVDCAEPHDNEIYYLYDIEGDDFPTDITTTGYEGCLPTFEGFVGAPYET
SIYEVYPMTPTFGSWTNGDREVVCSVYLATGEQMTGTAAGTAQ

>aaRXN00120 TRANSLATE of: rxn00120.seq check: 1348 from: 1 to: 840
MLIGMSNQTVNQAVSSGVKASPHRFNRFEIKYLITEQDVPALREQLATRMSTDPLSPPGG
YRVESLYFDSADLRCYTEKIEGLKFRRKLRIRTYGDGVLTPESTVSVEIKQRVNKVTQKR
RLDLPFIYALALGDSTGAAVGEQVDVEKLLEISPENQHALIHEMASFAKNYRLRPIATTK
YHREAFVGADAEESSRVTIDHGVSGRDRDFLLGQDLEDRPTVAQGLAVVEIKCDERVPFW
LTDMTAQLEMSVIRMSKYCETIEAFHNRPASAFGAVDPIF

>aaRXN00128 TRANSLATE of: rxn00128.seq check: 1749 from: 1 to: 1704
VSKISTKLKALTAVLSVTTLVAGCSTLPQNTDPQVLRSFSGSQSTQEIAGPTPNQDPDLL
IRGFFSAGAYPTQQYEAAKAYLTEGTRSTWNPAASTRILDRIDLNTLPGSTNAERTIAIR
GTQVGTLLSGGVYQPENAEFEAEITMRREDGEWRIDALPDGILLERNDLRNHYTPHDVYF
FDPSGQVLVGDRRWLFNESQSMSTVLMALLVNGPSPAISPGVVNQLSTDASFVGFNDGEY
QFTGLGNLDDDARLRFAAQAVWTLAHADVAGPYTLVADGAPLLSEFPTLTTDDLAEYNPE
AYTNTVSTLFALQDGSLSRVSSGNVSPLQGIWSGGDIDSAAISSSANVVAAVRHENNEAV
LTVGSMEGVTSDALRSETITRPTFEYASSGLWAVVDGETPVRVARSATTGELVQTEAEIV
LPRDVTGPISEFQLSRTGVRAAMIIEGKVYVGVVTRPGPGERRVTNITEVAPSLGEAALS
INWRPDGILLVGTSIPETPLWRVEQDGSAISSMPSGNLSAPVVAVASSATTVYVTDSHAM
LQLPTADNDIWREVPGLLGTRAAPVVAY

>aaRXN00154 TRANSLATE of: rxn00154.seq check: 3981 from: 1 to: 843
MSFSDPYAGNIFGGHSRNKQPEYPDVPAKPGLVVEVRGDGFVGAVTGFERTYDGDFVRLE

DRRGRDALYKLRKGAFMIDGQIVNLTRFVEKQAPRKSNSGSRRVENAQAKVAAPSRIWVE
GIHDAAIVEKVWGHDLRVEGVVVEYLEGLDNLEERLAEFQPGPGRRIGVLADHLVEGSKE
TRMTKSLPADVAVTGHPYIDIWAAVKPERLGLKAWPEVPYGEDWKTGICKRVGWSDPKEG
WHRVYNAVNSFRDLDYTLIGAVERLVDFVTNLDLSKEDVLA

>aaRXN00162 TRANSLATE of: rxn00162.seq check: 4822 from: 1 to: 354
VSTTTPIHPERKKRVRQALTMFSIAAWVTGVFLLALVAEMIMKYIIGMDLPEWARFVPIA
HGWVYIVFLMTTLNLGLKARWNPTRWVTTAIAGVVPLLSFFVEHNRRKEVTQTFQLNS

>aaRXN00167 TRANSLATE of: rxn00167.seq check: 5803 from: 1 to: 498
MYLLNPPVTEPEILTVNEIPTVVAVFDNHPMNDMPAAFDQTYQVLFPTLGAKGIAPIGPG
FALYTSEPTDTVSFEVGIPVSQPLEGDVSAASGIVLKNSVVPAGKIARISHIGSFDGLSQ
AWGSFVEALESAGHEIDMPCWEVYVTEPSPDMDPATLQTDLYVLLK

>aaRXN00171 TRANSLATE of: rxn00171.seq check: 2615 from: 1 to: 258
KDQQKQIHNLAAEVKRLRERDDARDQQLGVLNEAMFSLLGDGLDRFRESGDEASFNAALN
YQAVVAPEMFKTVYGVDPSTGEPIPT

>aaRXN00194 TRANSLATE of: rxn00194.seq check: 2468 from: 1 to: 441
VAGSSHTIEPEIYRGVSTLDEPSAAWGWHGLKRNTIQLAGWISVLFMLGYNFGNHKGHVE
TIWLLVITALLVIGLLIHLFEPKLFQVRTITSRNKPVGHVEPDWTYDQATLTGTWGNLTD
SQLRSVNIEPSRVAHLRAADSAKELDN

>aaRXN00197 TRANSLATE of: rxn00197.seq check: 7429 from: 1 to: 1212
VAAYLLGVVLFFLGIAVTIALHEWGHFITARIFGMKVRRFFIGFGPTVFAKRRGETVYGL
KAIPVGGFCDIAGMTAQDELDPEDLPRAMYLKPWWQRIIVLSGGVIMNLIVGFLVLYGVA
VSSGIPNPDVDTTATVDTVQCVPETQISATELSSCVGSGPAGDAGIEHGDKILAVNGQEM
ASFTAIRDAILELPGETATLTIEREGTLFDVDLQVASVTRLASDGSEITVGAVGMSSLPP
TDVYKKYGPIEGVGATARFTGDMISATWDGLKAFPAKIPGVVASIFGAERDVESPMSVVG
AVRIGGEFVERSMWDMFMMMLASLNFFLALFNLVPLPPLDGGHIAVVIYEKIRDFFRKLR
GKPAGGPADYTKLMPVTVAVAALLMTVGGLVIVADVVNPIRLFG

>aaRXN00216 TRANSLATE of: rxn00216.seq check: 8301 from: 1 to: 990
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RSWVMSTRPSRLTHLTGDFLDMDLDACEETWGTGVDKLKIQVAGPWTLGARIELANGHRV
LSDRGAMRDLTQALIAGIDAHARKVAGRFRAEVQVQIDEPELKSLIDGSLPGTSTFDIIP
AVNVADASERLQQVFSSIEGPTYLNLTGQIPTWDVARGAGADTVQISMDQVRGNEHLDGF
GETITSGIRLGLGITTGKDVVDELLERPRQKAVEVARFFDRLGVGRNYLVDAVDIHPGED
LVQGTITEAAQAYRMARVMSEMLSKDSCDL

>aaRXN00222 TRANSLATE of: rxn00222.seq check: 4411 from: 1 to: 1146
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GLLPEGRRLSSLRRNIKASADDELSLLLAVGADPVGAVAIFPHGENTQPAPPTVDFDDEL
DFSAALTESGIADPVALAGVQDKASARTIAVPVASDAILKLSPPEYPYLVENEAACYQLL
TKNKLRIELSKVEVLHDKHGRSGLLVHRFDRTPKGKIPVEDAGQVLGIWPADKYLVSYED
IAQALTKVCASPILAMRNLAFQIAVAWLSGNGDLHAKNISIINKGRGFEISPIYDIPATA
VYGDTTMALEIQGSKKDLSQKKFLKFCTSIGLPEKTAMSVANAALLATENAAETILASGN
FDTRMNRDLARVLKHRRSAWGA

>aaRXN00232 TRANSLATE of: rxn00232.seq check: 1106 from: 1 to: 510
MNDRAHQRIGDIERSQALDRLGSYFADGYLDIDEFDTRTGAAAIARTAGEIDVLFTDLPE
QQASTAVTPVQDDTEKELDLVLQRGKKLKQIDSAIWAVVMVSFFLGLFVFNVPYFWVVFI
LGGAASAGARFLLKVDDADEKLFEELHSKEQSEREARLRIAAQRRRELEQ

>aaRXN00236 TRANSLATE of: rxn00236.seq check: 116 from: 1 to: 726
MVISFVGWALSFMDGTAPIRQLQQIPEDVPPARGVEVPQIDTEADGRTSNHLRFWAEPIA
QDTGVSAQAIAAYGNAELIASTAWPGCNLGWNTLAGIGQVETRHGTYNGKMFGGSSLDEN
GVATPPIIGVPLDGSPGFAEIPDTDGGELDGDTEYDRAVGPMQFIPETWRLMGLDANGDG
VADPNQIDDAALSAANLLCSNDRDLSTPEGWTAAVHSYNMSNQYLMDVRDAAASYALRQP
AI

>aaRXN00242 TRANSLATE of: rxn00242.seq check: 7148 from: 1 to: 1278
VNEWRTVSLVDSTALTVIISVAVFTSAVALLGVVKKRSRWRVLGALISSAVLTSGAWVVI
EKLWKPFPDPNPWTIYLSAGLAVFPLLSILFRTGRTRILMATLTVIALVNTAAVINVIYQ
PYPTLGSFNPVPTAVSMSYADFESQTTAPTMDDREVGALVQVPLAGTTDDSTSGFDARDA
YAYIPPAYWDNPSLQLPVLVLMPGNPGQPDQWFSSGNADQTADNFQATHDGISPIVISVD
GTGSFSGNPACVDSDAQSVMTYLSHDVPMLIKQKFRVNQDQRTWTIGGLSYGGTCALQIM
TNHPEAYGSFLDFSGQEEPTLGTRQQTVDQLFGGDEDAFKAVNPEDLLNQAISSGAHTYS
GISGRFIAGSNDKSAVSALSHLDNLSNQAGMSTTFDTVAGGHSFQVWRVALANTFDWVAK
RGGLQV

>aaRXN00247 TRANSLATE of: rxn00247.seq check: 2491 from: 1 to: 927
MQTLIFIAIAGVAAQLVDGGLGMGFGVTSTTILIMLAGLGPAQASAVVHTAEVGTTLVSG
LSHWKFGNVDWKVVVRLGIPGAIGAFAGATFLSNISTEAAAPITSLILALIGMNLVWRFS
KGRIRRDYSDRPHSRGFLGGLGIVGGFVDASGGGGWGPVTTSTLLSLGRTEPRKVVGTVN
TAEFLVSLAATLGFVVGLWDDLVANLSAVLALLIGGAIAAPIGAWMISRVNATVLGGFVG
TLIVTLNLPKVLNVVGLDFIPTGLIQVTVLLIGLPLTYLGFRRYRKNLLNETISSEVVSE
PKGQKIKST

>aaRXN00256 TRANSLATE of: rxn00256.seq check: 519 from: 1 to: 771
MFMSLKTRRIFGALAVSLSISFSAIATPAASAQELVVSTSAVNEFGVVTSDITAEQILQA
QDLIAEMKQSEDIYEYFGALSDVEQRSIIAAVKENPYLIENESPRMRVQSETPDEETPDK
KKPSKTYKLYMSILEMMSCINLVDVPSCAQALKAANIAEREAKARYPDSVTNGKGDALRH
CAWSALMTIRIGKDAAERIGNAHETVVRGEPEEREMDLINNALGRDIGERFIINGDETGA
LSTCVSMANIGLLHTLL

>aaRXN00264 TRANSLATE of: rxn00264.seq check: 1681 from: 1 to: 378
LLVDSGDVQLEGVTVEPTQLAYTGINETQLRIRNIGTTPARTVLLGGEPFTEDIVMWWNF
IGRSHEEIAEYRKQWQAEADRFGITHGYISHHKDGLTRLPAPELPNAAIKARKNPAPTAR
PETRID

>aaRXN00267 TRANSLATE of: rxn00267.seq check: 9930 from: 1 to: 318
MRNSKSGLAFSAAALFCVVAVITRIASSPSFIAIVAIIVAAIALFVGLNSRVGTKLVDQP
VVFTQEQIDQLKELKSRDQEAAAIRQAQLWSRGSSSEAVAEAVRKL

>aaRXN00271 TRANSLATE of: rxn00271.seq check: 7582 from: 1 to: 990
MFSSRSKVLASIFTVGALALASCSSDSSDSSTSTDAAGGDSYRVGINQLVQHPALDAATT
GFKEAFEEAGVDVTFDEQNANGEQGTALTISQQFASDNLDLVLAVATPAAQATAQNITDI
PVLFTAVTDAVSAELVDSNEAPGGNVTGTSDIAPIEQQLELLQQLVPDAKSIGIVYASGE
VNSQVQVDEVTKAAEPLGLSVNTQTVTTVNEIQQAVEALGDVDVIYVPTDNMVVSGISSL
VQVAEQKQIPVIGAESGTVEGGALATLGIDYTELGRQTGEMALRILQDGEDPATMPVETA
TEFTYVINEDAAERQGVEIPQEILDKAERV

>aaRXN00272 TRANSLATE of: rxn00272.seq check: 8098 from: 1 to: 372
MPEPETSTMGSIQKSGEWLVPAYSAYKLNGADLFLDIRHATAAAPVITFDVNMTMGSMTL
IVPPGVYVEVQMASKNWSDFKVQTTNPLPGAPRVFITGVARASGLKVFTKHPHEPFGFWQ
KMFE

>aaRXN00283 TRANSLATE of: rxn00283.seq check: 5995 from: 1 to: 1032
VASATASDSHLSTCCSSSGRSASPSSPGLAPSWLTTGELFAQFTSTDGNAAIIAASGGGA
IGPQALFDASVRTFLISPALLLVAVVAVFFAYRRRDPEPIIPLALIGSVVFFQIITYSLG
STFGLLRFFLTALPLTIILLFQIIPPRHRFPSLRPGACYRDRVTGKYVPKTITGVLVLAI
FGGTGITLYGMSSANWAPQEYAIQELVFNMGSPSQDAVHTLNTFSTEMDVADFVDSLNLG
DGEVLLSTTYGFAVLTASNNQKQFIIPSDEDFITTLNEPAEHGVKYILALPREGRGATDP
INLRYPDMYETGSHIATMEIEFINQGQGQPNWRLYRVLTTPEQS

>aaRXN00334 TRANSLATE of: rxn00334.seq check: 4035 from: 1 to: 336
MAKLDDNVQIETVNVSFEAGGRTNWHTHPVGQNIIVLSGLGIYEAEGEPARLLEPGDVVF
AAAGVRHWHGAVSGAPMFHVVVNLKGIDGETVDWEEPVDEEHYRSVSAELQR

>aaRXN00338 TRANSLATE of: rxn00338.seq check: 9343 from: 1 to: 1140
VSDVTVGDIRRILDEAYPPALAESWDKVGLICGDPTESVKRVGLALDCTQAVADKAVDMG

LDMLIIHHPLLLRGVTSVAADEPKGKVIHTLIRGGVALFSAHTNADSARPGVNDKLAELV
GITAGRPIATRLLGGMDKWGVHVLPKDAAYLKKMLFDAGAGAIGDYRECAFEIEGTGQFR
PVEGANPAEGDVDKLFKSLELRIEFVAPRNLRARLTSVLREAHPYEEPAFDIVEMHSAES
LENATGLGRVGELPEPMRLADFVQQVANNLPVTEWGVRATGDPEQMVSRVAVSSGSGDSF
LNDVIKLGVDVYVTSDLRHHPVDEYLREGGPAVIDTAHWASEFPWTSQAQEILQDKAPQV
EVDVISIRTDPWTMSARAVN

>aaRXN00342 TRANSLATE of: rxn00342.seq check: 3222 from: 1 to: 429
VADAPGAVKQGAQDYAQLLGIQSGHIVQEIGWDEDSDTLISESIEDAIGEELLDEETDEL
CDVVLLWWREDDGDLVDGLVDSIRSLAENGRIWVLTPGIGKEGALAPGVISESAQLAGLV
QTKAERLGNWQGSCLVQRGNKKP

>aaRXN00344 TRANSLATE of: rxn00344.seq check: 1354 from: 1 to: 879
VDLSTWLSDTQYLISVDFVQHALIASALLGLLSGVIAPLIVVRQQSFAVHGTAELALMGA
AAALLFGLNVGGGAVIGSVVAAILLALLGMKQQDSAVGAVMSFGLGLSVLFIHLYPGRSS
TAFSLLTGQIVGVSSSSLWILVAVTVIVVSAVVIFWRPLLFASADPIMAQASGVNVRFIA
VAFAVLVGLTTSQSVQIVGALLVMALLITPGAAAVAVTANPVKAVVLAVIFAEVSAVGGL
LLSLAPGLPVSVFVTTISFVIYLVCRLIGWLRGRGAQRDEDAYRRRQHDHHPH

>aaRXN00353 TRANSLATE of: rxn00353.seq check: 5475 from: 1 to: 693
VGRSFTNRTFDPLPFMVVYPDGVDQHWNDARLGLDENTRHLGIDDVGFFVKLATHLGNTY
GIKRIFIVGYSNGGQMVLRLMHEVPKMLSGAATIASNMPVAENTLPQVKTFKTHPVPYLA
MAGTADTFSPYEGGDAGIGREHRRGVGMSAFDSAAYIAARNGLTEHRHDVIDDVVSIDTW
DGENPVEFWTLNGIGHLVPSGKTYPEFLGPSTTSVIAAEEIGKFFDGVRRR

>aaRXN00354 TRANSLATE of: rxn00354.seq check: 80 from: 1 to: 813
MGKLLFVDIGGTLLDYSNEVPRSAVDAIRKARAKGHRVYLSSGRSSAEVTSQLWDIGVDG
LIGANGGYVESAQESVFHRRLSGEETRHIVEWLYNRGLEFYLESNNGLYASRGFREASKP
VLSRLSEKTDVTVDSMYPDMFWGASLDRDDVNKISYIFNSQEDLDAAREAFPNLEHTTWG
GQTGALFGTIGVSVNKKIGVDRLLKYLNADRANTIAFGDSDEDLSLFEASAYGVAMGEAT
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>aaRXN00362 TRANSLATE of: rxn00362.seq check: 1707 from: 1 to: 1347
MGIIALLVFIAIAVILNVFLKRDISEALLVGLVGTALVGGVNAPTLLIDAVVDAAQSEVT
FAGMAFVFMGIVVQSTGLIDRLIAILNSIFGRLRGGAGYVSTLGSALIGLIAGSTAGNSA
TVGSVTIPWMKKTGWTAERSATLVAGNSGLGVALPPNSTMFIILALPAAAASSASQVYIA
LACGGAYAVLYRLAVVFYWTRKDKIPATPDDQRVSFGEAMKTGWRSPLIFLGILIPVILT
IGPLSEWLKTHGVGESGVKSMSIIVWVPILITAIALIEGRKRIANNMAHFRVQISKDLPQ
FATVGISLFSALAAANIMEELGVGPQLSNWLDSMDLPKSVMVIIVCIMCIVVATPLSSTA
TAAAIGAPAVAALAAVGIDPTVAIVVILLCTSTEGASPPVGAPIYLSAAIADANPTKMFV
PLITYFVVPMILLAWLVGMGFLPVIVPTG

>aaRXN00373 TRANSLATE of: rxn00373.seq check: 1756 from: 1 to: 339
MDIQQLDAETTAWKDSLLRAAQEAGFHFEPPKLFEDFETMVEQYKQAAASDPDIDVTDIQ
QMWGIVVGEYLREKMGMEWVVITDDYGTDLAILATAPNGDHVYSCPIIVVGKR

>aaRXN00390 TRANSLATE of: rxn00390.seq check: 7582 from: 1 to: 405
MSTTREIAFLIARILLGVILIAHGWDKFAITGLEGVTGFFDSLGIPAAGIAAIAAAVVEL
LGGILIILGVFTRIVAAFVAIDMLFAALFAHVSSGIFVTNNGWELTGAIGAGALLLIAVG
ASAWSIDGVLAKRKA

>aaRXN00399 TRANSLATE of: rxn00399.seq check: 2271 from: 1 to: 315
MSHNDSPNFARRALNWLRQGYPTGVPRHDTFALFYVLERELTEEDLNELAELLIAEGENN
GLHDNPITREKIGKLITHVHSQPPEDEDIDRIQKKLQAEGFPTRN

>aaRXN00416 TRANSLATE of: rxn00416.seq check: 8529 from: 1 to: 1650
LASYLSPTALVVAVLAIPLSATRLYLDGISVDQGFRTQFLTRMADDIGLSDMNYIDMPTF
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TCIILAMNSEEPYAAIVAMGIPAMLVLASRIAKGDKFALAGGIIYLGVSATFYTLFTGAI
ALSAVAVCIVVAAIVQRSIKPLLWLAVLGGGSIVIALISWGPYLLASINGAERSGDSATH
YLPLEGTQFPVPFLASSVVGLLCLVGLIYLVVRFHNNEVRAMWVGIAVFYAWMGMSMAIT

LLGNTLLGFRLDTVLVLIFATAGVLGIADFRLASVYQLYPTQITERTATHLTNLIVVLVL
LGGLYYAQDLPQKNARAIDLAYTDTDGYGERADLYPAGAARYYKDINDHLLDQGFEPSET
VVLTDELDFMSYYPYRGYQAFTSHYANPLGEFGNRNAFIEDLAIRSWDELADPQQFSDAL
NTSPWTIPEVFIFRGSIDDPDAGWKYDVAEDLYPNNPNVRFRGVYFNPESFDQMWQTKQV
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>aaRXN00422 TRANSLATE of: rxn00422.seq check: 3762 from: 1 to: 894
MPTNYARDNVISLASAREQRSGKPEPKPELTLIVRATNVQADGEVHRQIGLNSAMSLDEL
HNVLNIVFGVGGEQSPWRFEDQFHQPSAPDTNLGELLPEPGDFLFYFWGLWQFNLQCVEM
YPRDNGTPRALCIGGSGGLGDDFDQATINAELTGTDTIRDVLSGVRPEVIDLVDRTGVFD
FIPLLQALDLKREPLIDATRYHTCRTLPVENSAEASDAFWSCVLALSCLGNDELFIEVIE
STMSTLGWVADDGSPLRAPEITSACEASLKILAELGGYGPERLAPVDRLDIYRELLCF

>aaRXN00447 TRANSLATE of: rxn00447.seq check: 3535 from: 1 to: 420
MLGSLWRFAVRTAAGAVALWVVIKLIDGISLSFPTTPLYQDGQHDNLLTFLAVAAIIVVL
NATVKPVLKLLGLPLTIITLGLFSLVINAVIMLLAEYVSDLIGFGLRIETFGAAFWGAIV
LALVNWVLGPITGLLGAKKD

>aaRXN00455 TRANSLATE of: rxn00455.seq check: 9756 from: 1 to: 750
MVVDVQNQSHTPETQPQPGQGAAKKTPVASGNSTFIHIQPSLYPILLALFVAVFLISNIT
ATKGVEIGPLVTDGAFFLFPISYVLGDVLAECYGFKSTRRAILTGFGITMLAALSFYISI
WLPGASFWEGQEAFEATLGLVPQIIVASLAGYIVGQLLNAKVLVAIKKRTGEKSLWARLI
GSTVVGEFVDTLLFCAIAAPVIGIATAPDFINYVVVGFVWKTLLEVILMPITYAVIRWVK
RREGYETFDA

>aaRXN00473 TRANSLATE of: rxn00473.seq check: 5144 from: 1 to: 789
MSGTGVRKLWGDGTPVSLPDLSGLSRAERIDALRSRMSTMGAAVPKFEPSVEESAEQKQD
SLAEKQDIVAVPSAFSDLFPGDGLPRRAVTQLVEQPLVVVDFLAHITAQGGHAAVIGWKD
LAYAGVIDSGGVCENIIAIPNPGTEPLNVAAVLCEGLDVVVYKGPEISLSPTRARPLLGK
LRQGTAALVMVGTKVSSPALSVDAEITDYVGIGAGSGRIRGVEMQVRAVSKTHGVRSGKV
LISRPQDAALLEPEQPTTLRAVP

>aaRXN00485 TRANSLATE of: rxn00485.seq check: 6436 from: 1 to: 2295
VSSVNDLFAKPYENADLVVTVSAKNEDSFAAFEQQLATTPGVEALAFDQNFAASVKQSDG
IYASTSVQSISEGPLQWRPILEGRLPQGPGEIAVTTAPGAPEVGEHVSIRLSQNTEDTEV
LVVGVVEPAAQETLGGAPFVVASPDALMEWNSSGVRGEFRVATSDPASLEAASFSDATVV
VASAEGHVDKLADSYLGQRDRYFLLLAAFVAVAAAVAFLVVFSAYSVLTGERVREFGLIR
SVGASTPQILGSVIFEAGILGVVAAGFGAPAGLMAARLLADNAARFGIRVPIDVIDLPSS
TMWLIAGVGVVMSVIAALPAVFSVCRKSAVESLSTPAISRTSPWFGALWLLLAGIVGAGG
MWAYEATSDYRGMRSVALSIAGSGALVCALLIATAVLVPWLLHVFSRIVGGTVPTLQLGL
AFAAKQKSRSAALIAVILAGSALSSAVLHGQAHIGTHLVAVAKGMGGTDMMVTALDGEIP
AGMLEEISSIDGVKTAIAPATTAVELEDSGNFSVLMLAEEDGASVMRAGDTGAPAGGLVL
GRNSPDQDAYPAGQAANIIVADTPTQAEIFHSDNYFSMIDPALATGPSTTRNVLILLDGD
SNQAPDNATAQAVRKTISLFDGRYSITEGFSARQNTFELVSRITTMSTLLAIVALAIAAV
GLINTVALTISERARDRYLLRTIGLTSTGQILVMAIEMIALSLPAAIVGAVSGGFLGRFV
ASSATNTAATAPLQVDILGGTVLAMVAGSVLCALIVLANKRRRVV

>aaRXN00496 TRANSLATE of: rxn00496.seq check: 7171 from: 1 to: 1026
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PATMPDWSTLLPGILDQDQDLPVESTSDTTVMQASNPATQEFAPVSISDTPNTATNSADA
DESATVVPLAARREKRAKSGSSGVHSLDASATQRKSHPFLSGLVGAAAATLVIAGGGAAV
YNADENSPLYGMNQQLFGNQDSPSVVELASTLEEVDSRTASGDVEGARALLEQARAMLDG
MAPPRKAPSEATRTVESEPGTQTLTATVTESASPEPPVTETQTVTSTEVQTVTTTAVAPP
VWTPNPEPTTTAAPTSTPSTGGGEGTGNDGDSGLVPPQTPGN

>aaRXN00503 TRANSLATE of: rxn00503.seq check: 5802 from: 1 to: 1722
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VIDGLFGIGGRGGLTPELASLVESFSASGIPILAIDVPSGVHADSGELPPGVMVTVEGFD
NDAPMARQKIPAHIDADVTITFGGLRRAHAVSPACGEVLCADINIAGGGGKSLSAELSQV
QAEDATPQMFASKAYQRKDSLFERANLKATAPHIHRIGQHFTVLNMEPGPDHDKYSGGIV

GIVAGSGTYPGAAVLSVKAAVRATSAMVRYVGPALNFVIQSLPEVVATQSLATAGRVQAW
VHGPGRGLEAEQSAELAELLSRPEPVLIDADSLSLLQLSAELRQALRERKAPTVLTPHKG
EFERIAAELRSEGVEIPQADKDPIGAAQALAKEFDCCVLLKGKYTVIAAHDFVHAINAGH
SWLATPGSGDVLSGLVGAHLAQSYAELNRLPEFFPDVTLSDSAIYTQIAPAATIHAVAAG
LAARTEFGFAPTSASLIADAIPAATAKVDLKRIV

>aaRXN00504 TRANSLATE of: rxn00504.seq check: 4338 from: 1 to: 420
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ANPVASLGRNAAATGDGSFFSDPTTAICGPVIFVGAEGEDITLDEIERIKDGIRAARNYR
DDYPEEFNLWRNAVYNLRTA

>aaRXN00505 TRANSLATE of: rxn00505.seq check: 7863 from: 1 to: 495
MKSEFPVSGTRRFEHAADTQNFGEELGRHLEAGDVVILDGPLGAGKTTFTQGIARGLQVK
GRVTSPTFVIAREHRSEIGGPDLIHMDAYRLLGEDSEDADPIGALDSLDLDTDLDLAVVV
AEWGGGLVEQIADSYLLITIDRETAVQEDPESEARIFHWEWREGR

>aaRXN00507 TRANSLATE of: rxn00507.seq check: 8687 from: 1 to: 855
VAENLNKHLSKLSKRGPHRVLVGDMNYAGIPGKIYTPAEGDGIPGVAFGHDWMKSIKYYH
QTLRHLASWGIAVAAPDTENGFMPDHKGFASDLESSIQILGGVKLGSGNVTVNPACLGVV
GHGMGAGAAVLSAANRDLVRAVGAIYPAKTSPSAIDAAFAVKAPGLVIGSSSLGLFESGE
PAKLAANWAGDVCYRESEKGNQQGFSEDTMFKLVAGIGSPQTGAQETVRGLLTGFLLHQL
AGEKKYKAFSEPDAEAKKVVSYFGQELQEHAFPKDTSPFAFLNEK

>aaRXN00510 TRANSLATE of: rxn00510.seq check: 4920 from: 1 to: 1509
VNDPLAGYGAVISALQGASGGMYRGPAKSEGQLREMYQTIEGLDTSSLREAAEAAVGGTN
EARIQGWVGPLLKFFGTVGGGMIATEIAERAVDWFKNRNDVEEVSEAADKAADAIDSTVT
ESDQGMMHIIQQLLDIVSTLTQILGSMDRGKFPQEFRDCVQTGADLIDQAGDMLEGLCAD
RDDAISQCFSALTDHGKQVCETEPKPLCSAASGGSSGGATSSAAASSGGSSSSTASSGSS
GGSSSAADSSTSTNAESSVEKEKTTPAAVEKPDEKPVEKPVEKTPEKPVEKPVEKQECEE
KPDPDPEKCKTEPVECEPTPKPETEPEPKPTPTPTPGTPTPIPELETEDCEPGKETGTDS
ESESEECAPELNDVPEESDLIGQLIKGAIGIGIVVVGVGLLVNFLEQCVPVIEEVPVPEP
EPIPEPAPQPEPTSVKPPESELDKVAEPAPKPIPQANYTAAAATNYSAPAHAPVVPITPA
APEVPAAPEVPAPAVNLHKAGGW

>aaRXN00515 TRANSLATE of: rxn00515.seq check: 5675 from: 1 to: 702
MRFSRVLPALLITTAVSIPTASAATLTADTDKELCIASNTDDSAVVTFWNSIEDSVREQR
LDELDAQDPGIKAAIESYIAQDDNAPTAAELQVRLDAIESGEGLAMLLPDDPTLADPNAE
ESFKTEYTYDEAKDIISGFSSDPASDVLSQLQQAATTGTRTAEIRAEVFADRTDDYNESQ
TALKEDFQNCIDAIDDARPIPLQYILIGGAIALAVIVLGIRAWTNSRKQSKHSQ

>aaRXN00527 TRANSLATE of: rxn00527.seq check: 7113 from: 1 to: 1764
VIATSDVREISSEGIVARVSVNGNIEAARTTTIYTSLTVPVANLPVAVGDRVAADQVLAE
LDASALQRQLDETDANNARAAMANRNSIAQSQQAYEQSRELLDSGLSPEINSARSSLRAS
SQAYQDAIRSFEAKQRDVDGGLDSTMVAQSDALKAAREQADAAEIERLRADFGLLNNDRS
NLNDVIGLLDERESLASAESELAQARAAGDLEAVAAAEAKVAGLEQSIASKTSTWPSQDQ
TYLQSYTALEEAERRVASTTEALEIAERIYIDSLGKVDSELAAAQRAVAEAHSAQQDAAL
GLETAQLSTQHQLEAQSSAIDAALGLASVDNEAATRSTSQLRMDINNTTVRSPYSGIVSS
VQAAQGQPAAGALLSVADDSELKITANVKEAEISNVTIGSRVTFTTPSTGTKEFAGRVSK
VSPIAAAASAPATGEGAAAGATTTNTDVTFPIEISVTGDREGLNLGGSARVRIVHEIAPH
VLTVPLEAVYKNDDGKDAVLIISDDNKVEEVEVKTAESDDFDIAVSGAGISEDARVLTQP
GNYRGLIGETVKLHADTVEQAAAPFSPAAPFDPAAPAVSAKQTVGQVI

>aaRXN00547 TRANSLATE of: rxn00547.seq check: 6032 from: 1 to: 1398
VARDFINAIGGRFGRFAQVGTQRFWTPLRVLITTSLVFLAMGFLTKANCIQGSRGTDGVV
SLNWSGSRQYTSACYNDIVPLYGGRGIDAPGFPYAFSWQEGDLTRYMEYPVLGGIFQWIC
GIITRFLYPVVDVIPFHTLPESGLYFIVTALALAFFWVLVIRMMVELTGNRVWDTVLVAA
SPLVAVHAFTNWDTPAIAAVIGAMLAVKRGNPLVAGVLIGAGTAFKLWPLYLLGAYLVLA
VKNKNLKPFITMAAAAAVTWLVVNVPVMIAYPKAWNEFLRLNRERGAEWTTIYQVIDRNL
PINLNDPVLLNVLSFGLFGASCVAILILGLKVQRTPRVAELAFLIVAAFLLFNKVWSPQY
SLWLVPLAVLAFPQWKVLFPWMVTDAMVWPILMWHMLGTDNKGLPHEMLDLIVISRDAFI
VVMIVGVIRQMLGRRADPVMDAHAGRDLLAGPFGAGERRKALKEVS

>aaRXN00552 TRANSLATE of: rxn00552.seq check: 471 from: 1 to: 936
VATSKILLYYAFTPLSDPKAVQLWQRELCESLNLRGRILISTHGINGTVGGDIDDCKAYI
KKTREYPGFNRMQFKWSEGGAEDFPKLSVKVRDEIVAFGAPDELKVDENGVVGGGVHLKP
QQVNELVEARGDEVVFFDGRNAMEAQIGKFKDAVVPDVETTHDFIAEIESGKYDDLKDKP
VVTYCTGGIRCEILSSLMINRGFKEVYQIDGGIVRYGEQFGNKGLWEGSLYVFDKRMHME
FGEDYKEVGHCIHCDTPTNKFEHCLNEDDCRELVLMCPDCFANVETRHCKRERCAAIAAD
FAEQGIDPLVTS

>aaRXN00555 TRANSLATE of: rxn00555.seq check: 6336 from: 1 to: 939
MKQPLRVLISCRPEENSGGKRSEQNDAVFEFAAWLARTSDINVRGITTFIRPWPSSSISK
LGGKYHKWYKNLDSYYRSRTIKGLKEAGVEKSQWDDDVSVFVDGPSESTLLTHAAEEFEA
DLILLGSDATAPKGRFLASSTADALLHSSPVPLGLVPRGVKLSKKGVTRVNYAFTNESDD
FEQGLRSSAELATNWNVPLRILAFSPTGITSAPTSRSLDISTELSSEWRELTLAMLDRAR
DGVLTDHPNLSVSSETGSGWGWSGAIDALRWKKGDLLCMGSHRTDTLSRVFVGSETMEII
RNSPVPTIIYPGL

>aaRXN00560 TRANSLATE of: rxn00560.seq check: 5757 from: 1 to: 375
MRIDPLETRQAVLAVKDWIEGEGDVKKPGRAALAAATRLSVRLLAQHAPGNSVEVRVPPF
VAVQCIEGPKHTRGTPPNVVETDAKTWLRLAPGQTTFDAEFESGKISASGTRAKEIADWL
PVVKL

>aaRXN00574 TRANSLATE of: rxn00574.seq check: 6894 from: 1 to: 879
MSFKVISTGPQAIFQDRGRFGFASAGVGTSGSFDRLSAARANHALGNDPNATVVEILLGG
FEVEALHTTSIVFTGTEAEVMVRTAGGQSKNATTNTIIDVAAGERIRVEPATYGMRAYFA
ARGGFAVKKTLGSASTDLISHMGPCPIEPGDVIDVATDIADSQWWPKLRQLPTLWKRMPT
ETLTVIRGPRDKWFTQESLNNFFTQVFTVSNDSNRIGLRMHSSEPIQHRVEGELKSEGMV
RGSIQIPPGGNPVVFGPDHPVTGGYPVIAVLTSRSCDRSAQLLPGDKVRFKLL

>aaRXN00589 TRANSLATE of: rxn00589.seq check: 4154 from: 1 to: 450
MTTLSRKFFVSATTALAAVALVACSPNEIDSELKVPTATGVSLPSKNVSATSTATTDEDA
PGYIDCVAAPTQQPAEISLNCAMDIDRLTDISWSEWDTDSATGTGTRIVTAANGQETETE
DIEVKLSFPTESSQGLVFTQVTVDGQVLFL

>aaRXN00616 TRANSLATE of: rxn00616.seq check: 2419 from: 1 to: 345
MKSLPRFAPLITILALLVLVAIGGSALANNRATPNVESEPATVNQRSTPTTSAYEPPATE
SPEEPTTQIQESPVQPPVPAPAQIPQAPQVPLNYQYYDDDWDDDDDDFDDDWDDD

>aaRXN00647 TRANSLATE of: rxn00647.seq check: 2211 from: 1 to: 633
MGIFEAIRAARAKTKAEIKAAEAKVKTEAKNKAKLDLKREKLLVQQEKNLLKVEEKGLKK
RNKHELKMAKNILEQKRQGRLNKDKVKRWAGTARVLTPLLLPIIYRLSTEARDQVVKGRA
RRAGVTAEQLSQFAGHAAALKARIQGVRETAKNSSLPAGFVRDVEERLNELEAAANNSEF
MSPQQRNRAHQSISRDLNQVSDQIQDRLLDK

>aaRXN00653 TRANSLATE of: rxn00653.seq check: 8269 from: 1 to: 765
VSVSQVVGEILLTVGILALLFAYYEAYWTNVESGKLQESAGQKLDEDWNEARVNPRQKLT
PELGEAFARMYVPAFGSDFNFAVIEGTDEEDLLAGPGRYVDSQMPGEAGNFAVAGHRVGK
GAPFNDLGNLEVCDAIVVETYNSWDVYRVMPMSTNGADRAAEAADCFNENQVSRMAEGDY
VNVSGRSITTPDRIDATYPTPGVFDTAVREGSEALLTLTTCHPQFSNAERMIVHAMLVEE
IDKSSGERPAALEEN

>aaRXN00662 TRANSLATE of: rxn00662.seq check: 7679 from: 1 to: 1269
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TVIVLSVVASWAWFFVHRTGPKEVSIVGAIRGEKMPILETIASAFLQVTTVAAGAPVGAE
NAPRIAGALVGERFSRWLQLDIDAKRILVASAAGAGLGASFHLPLAGVLFALEVLLVEAS
TRTVVIAIITTTAAVATTGFFVQTPDVFSTVPLTESPWMLLAAMVTGVVAGMCGHWFSAA
AHKMAQASPKGVKILWQMPLGFVVIAAVIYFFPETLANPRWLADSMLGDGLILSTILLVL
VLRTAMFLLAFRVGMVGGNLIPAFALGSMVGGVVGAVLEPITNVPIAAFALLGAAAFLST
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ELK

>aaRXN00666 TRANSLATE of: rxn00666.seq check: 5076 from: 1 to: 915
MTAGEAIAHSVRAAQIAEEHNYARFWVAEHHNSEGLASSATTLLMGHIAGHTSRIRVGSG
GIMMPNHSALHVAEELGTLEAIYPGRIEAGLGRAPGTDPMTARELGRASSLVDDVLSTIV
SLQNYLDTPEERPNIIAHPGINSRVPLFMLGSSLNGAAMAAKLDLPFAFASHFAPFQMGP
AIASYRELAANPYVMAAANVLVCDTEEEAEFQISTLHQMFAGIVTNSRGKLAPPVRNLKD
KLDPMIWKHIEDSLEMTFIGTAESVVLQLQEFADRYKLDEIITVTYSYDPEVRFRSIAAL
GTAWN

>aaRXN00704 TRANSLATE of: rxn00704.seq check: 5954 from: 1 to: 627
LTITFSRVALTTLAVTATTLSLSTAANAQSSLLDKTLDARQCIDADNVWVSVDYGADSEK
EPEGACATEFTDGVVALESAGFKLTFDESEMGKYMTGINGVVPDWVETGTYWSYYSGEVA
DDYSVDYTYYEVGASNSEPEGGTVEAWVVGTGEETPALETLPETPAATGSSEDGGWIAVI
AGLLALIGGGVAALYQGLITIPGLVLPKF

>aaRXN00712 TRANSLATE of: rxn00712.seq check: 8070 from: 1 to: 696
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SATEASTTAPVQCNLDPRTSDFGPYLAQSRTPVGELAGSADSVVQVPDWFYHFQMGDNGY
DSCSKLSYVVLNGSNGDAERSTGTGAAIADVVVLFIDGHMVARPAPFEMKTVESVTRVSD
SEIQVVYGHAGRSTAEGVTDYFTFNFFVDNGVLSGRGDLPEHIDTHMRLYLL

>aaRXN00720 TRANSLATE of: rxn00720.seq check: 5001 from: 1 to: 666
MASPRRPQVAAPRIKELRLTGLDNADPQDIESNEQIESCRFNEAELSERDLSGAGFIECE
FLGLEAHETELRRAQFVETRIERANAPSFKAARSIWRNATISDSRFGAVEMYEATVQALK
ISDSKLSFVNLRGASLRDVLFENCVIDELDLGQARAERIAFKDCTVHSLTFDHAVLSNVD
LRGLDIERISGVESMSGTVISSLQAADLSGAFARHLGITVND

>aaRXN00722 TRANSLATE of: rxn00722.seq check: 460 from: 1 to: 1065
AVLREAGVVDAGGQGLVILLESLAEQINGNPPHHPSHHSEPAEEPSFHGKTGDLEVMFYI
ACDSAQTLDALHNELETLGDSLLIARETNTRGTVHIHSRRAGEVIQKAFAAGDVSELRLE
ILPDTSGSFTEEPRRVLMAVAPDGLVAELYRSAGVKVVARNIAQSKSDDVVAKIVSIARK
SGADEVILLPNGLLTKRELVSIERSSHAFEQSVVILPTATLVAGLAAVSVHEPAQPLAVD
SYAMAEAAGSMRTATIRAATSAALTQAGACSKGDLLSFIGPEIALVSEELNDALSRTALR
LLDGSSEQITLLIAQDRQSAFDEDVFRRGLGTHTDVEITVYPATGMENLVEIGVE

>aaRXN00729 TRANSLATE of: rxn00729.seq check: 9733 from: 1 to: 978
MSATNPDALDVQHVYPIKTKKTPLAVIFNIISGGLIGMAELVPGISGGTVALVLGIYERA
LHNGDLLIDLIKVLIKDRSKVKEAAAKIDWWFLGAIGVGMVVMVFSMSSILHTVVEDYPE
ITRGLFLGMVAVSILVPLGMMDMRDAKKRLAIVIPLFIICAMLGFFGTSFTSAPRTDPSL
IFVFICAAIAVCALVLPGVSGSFFLLAVGMYAPIMESLSNRDLSVIGVFLLGALTGVILF
VKVLSYVLEHHRTITLTIMAGLMLGSLRALWPWQDGDANLLAPGDNAVMIFSIIILGGAI
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>aaRXN00730 TRANSLATE of: rxn00730.seq check: 2858 from: 1 to: 807
MSSQQTIFIILLFAAVILISIVMITAAFKTRKKRFAARAEGMANPTIPAPTVPWQRFAGA
LAALYARPEWHKTRGAKRVYSAEQTYFGFVSAMPLGMVQNMLQTDWGVKKSEHAVDQLSK
GVEVIVGVAAGNWRKNGVSPAQVEEAGQRLAAEGLAHPHFVVFQKQLQQADPNAEYDLDV
LAFDIARVANLLRWAAYTDLLLPAEARWFQDQLGIAAAVSFGSWEEYGERYVRGLQKNFK
GGNKPYIEGERWLNTEAESPWKTQKWISA

>aaRXN00731 TRANSLATE of: rxn00731.seq check: 8578 from: 1 to: 2496
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SLNDPHFLTAGFSASTTTAALMSTLWIIVFAVPSERILGSLKFAITAALIHITSIPLGIG
IAHLIEEADLNRWGNNMLADVLLTPDFWVFGVAAFASASMPLLWRRRTRLFLFTITLTLL
LYTGTLADVTMLTATIIGTVAGELNRHRKTPGGRWLPGSLTVREARIMTAILVTAVAAGP
VLAALNPLTHGPFSSATKLIWQPLVTEEHMHHLCHTDSTSDACQGALDQLQQHGVGPSVA
NLIPLILTVVLAMGLSRGRRLAWILAVLAQLISIAVLMFQLTKLSADSTDLLWSVNAFSV
IVPWLVALAVLVFSRRAFQVKIDTTRISKSLGALMVTWLATAALWILATLFLPHAFHPHP
TLGLAFKELPFRYLPPTIETVLSHQLFPRSPAGWAVFEWTGTLFWLVVAATLYHLLMGVP
SNKAHEDQENAATLLRSGSGDHLSWMTIWGGNTYWWAPENAGYVAYRVKRGIAITLGEPI
LGPDSSVSKAELAAQFEEFASNQGWIVAWYSVCEEFSKERINAGHHTLRVAEEAVLSSAN
ADFKGKHFQNVRTARNRAAKEGVSSIWTTWADLSAEMQHKIITLSEEWVSDKALPEMGFT

LGTVNELSDPDTYLLLAIDEEEHLHGVTSWLPVYEKGRIVGYTLDVMRRDPQGFKSVIEF
LISEAVVIARDHDLEWMSMSGAPLSTPPGVADDGTIGQILELLGRAMEPFYGFRSLAASK
NKFHPEHHGWYLCYRDELSLPSIGLAVAACYLNEFPLPNWLKKTATSAPSHS

>aaRXN00738 TRANSLATE of: rxn00738.seq check: 6764 from: 1 to: 363
CQEETDGFFDFGRDMRPGERRSYGTLLNDATTQVSHILGNAFTRSGLNAEYANLYGQALV
GMVSMTAQWWLDERTPPKEEVAAHIVNLCWNGLTGMEADPKLTPISSAEGAIFGQEKESE
A

>aaRXN00750 TRANSLATE of: rxn00750.seq check: 8593 from: 1 to: 438
MDWSIIINVLAVATVVILTLIIAAALYRGFTRNKIKKLEAIREAQQHERDNPTIRIADLR
GIMDTHHYIYTDVMVTRAHELMITAPAFFDVTLPEAVLYEDTKRAAHDALNGYKDTTVAS
AEKIMLVDAVTAAWTLYSTKANTGST

>aaRXN00762 TRANSLATE of: rxn00762.seq check: 9427 from: 1 to: 876
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NSELVGLAAADEETTELAVHPAHRRQGIGKALIDAAPTSSIWAHGNTAGAQALASTLRMK
KTRELLVMEISDRALDDSAAYKDPDGITHSSLANAPVEKSVAEAKWLQSNNEAFDWHPEQ
GGWTTHRLAQAQKADWYKDSDVLFLWDGEEIVGFHWVKQHSPELQEIYVVGLSSAYRGRG
LGDPLVRLGLHHMRAHGARKVILYVEAGNTPAVAAYEKLGFTVAESHVVYEK

>aaRXN00768 TRANSLATE of: rxn00768.seq check: 4486 from: 1 to: 1119
VGTIEDVANEQIEVANNTDQIPAGYKSPLLSRSGAAEAQGAAAQAGTEGVAWHYGSPLVE
QRIFETGTGLVDRSNRKVIKVEGPDAPTFLNNILSQKVDSVENGFTAGALDLDAQGRIQH
TMQVTVVDGVFYLDTSAAEFDTLIGFLTKMIFWSEVTVQEADLAIITLLGQEIALPDAVF
ARRVDWNGPSRIDVAIRRENLEEGVDKLLEAGAKLTGLMAYTAERVKALEPAAGVDLDDK
TIPHEIPHWIGRGEHLGAVHLTKGCYRGQETVARVDNLGRSPRVLVLLHLDGSAPLDPVT
GAEIKAGARTVGRLGTVVHDADYGPIALGLVKRSALDKELHIDDVSVNVDRDLLPAEESE
QRGRAAINKLKGL

>aaRXN00769 TRANSLATE of: rxn00769.seq check: 3734 from: 1 to: 213
MGRGRAKAKQTKVARQLKYSSPDMDLDSLQRELANQSPRRSYSDTPDDEDQYAEYADWDE
DDTDNRAYGTN

>aaRXN00771 TRANSLATE of: rxn00771.seq check: 865 from: 1 to: 819
MTNPYEAFIPLKHRTGIEPEHTFWEWENKRVHIARRRREAPVRVIVVHGLGTHSGALWPL
VAAIEGADLAAIDLPKTPLYDDWLRLLESFISSEDDGRPLILIGAGTGGLLCAEAAHRTG
LVAHVIATCLLNPSDQPTRRALFRFSPLTRLIQGRLRNREIPVTRVLNFSKISRSPALSK
LCAADEFSGASKITWGFLASYVQHKAKLGAVPVTLMHPDHDLLTPVELSLRTLSRLKAPT
DVVMLKDCGHFPIEEPGFTTMLETVTSVIARNS

>aaRXN00785 TRANSLATE of: rxn00785.seq check: 7074 from: 1 to: 657
IIATLGVTLLVEARGLFLTVASIPILFGIFTPLTSWFVSQQGVAANVSPGVSVTEILTAV
YPLAQLFPTLIMVTLVAALIAVVRIILLRRNQESRQVSGELTRRAQREAEEANQNAARRA
RAQSTRVQSSKTRNRRAQPTGDTGSQVTVDELIRRSQERRQTVAQRQTERGVPFTPTPGP
VVAPKPRPSAPEAPAPTDVGERRQAAPKRRTSLDDDLYS

>aaRXN00795 TRANSLATE of: rxn00795.seq check: 1530 from: 1 to: 528
MIISLVVSAIIMLVAVGFTGMCSFNTGSPENGQVPEVDASTFMSMEARAMTDHATRLPET
PEGWTTNSARRTMVDDTPASVVGYVTADEGYIQLTQTGETVEDAVAGYDTRWRDLSESYD
LDGHDVGIYTSQESDVRDLRVMDLGDARVMVSGAATDEEFNDLLRAVANSEPLPTN

>aaRXN00831 TRANSLATE of: rxn00831.seq check: 2669 from: 1 to: 702
MSALETLQWQDWSSVLIVVAHPDDPEYGLSAAVKEWTDAGVEVSYLLLTHGEAGIQGLDP
KETGSLRAAEQRAACDVVGVRNLTILNHPDSMLVYNLVLRKDIAREIRIRKPNAVVVSNF
DVEAYGGLNQADHRVAGLAAIDATRDAANPWAQPELLQEDLQPWGAEVIIIAGHPEPTHT
MDLAKDSVDAGVASLQAHKEYLAALPDPPKPEEFIPAFLEVEGGYAAAFRVFGR

>aaRXN00835 TRANSLATE of: rxn00835.seq check: 6529 from: 1 to: 954
MAGGLAALLDDVAAITRAAAASLDDVTAMAGKTSVKAAGVVVDDTAVTPQYVQGVKPARE
LPMIWRIAKGSLVNKIIIILPIALLLSAFAPWALTPILMLGGSYLCFEGAEKIWHSLHRR

IKGEQHSTEPKSQESPKSEDQLVKSAITTDLILSAEIMVISLNQIADQTIWMQAAVLFVV
GIGITALVYGVVGVLVKMDDVGLTLSKRDSAGIQKFGRGLVKAMPIVLQVISVVGVFAML
WVGGHIMVVGTEELGWELPYHLVHGLESWANGIGGSALGWVGNTFGSLVFGLIWGAIITV
VVSVIKKFIPQRAQNSSH

>aaRXN00836 TRANSLATE of: rxn00836.seq check: 6589 from: 1 to: 1716
MYTHSTGTPQLDFDGDIYPLHLFFSAQTAQHFALERVNWHVLRAIVKPEQGELIVEALLA
PIESATKIGVWVQDEFLGVIAESQFLLNSQLSRIFASGHLISSQLLLTPSKGSLASVLLP
NLKFGLISNDPPRADSHLLPLGRMWRVEPTVHALFEDFSLGSTILFGLRLDLEALIVSYN
GIECGILNFDDASALSSAVKFSNANGLTPTVLGHVVRENGETSFEIDVLPLELWSKKQHR
LEVLKIPRLIPKEADSQNYVKATALLSDEILRPQTLSKKALSLSDTAVKYSPHVACGVGM
FSLFAVIPFDKLSDHSAMLLAVISLMLFVLALVILFKRIQSTNTQRWNLASSVGLLATLP
IIIFLVADTLIPQGSLENHAQPDVQVTTLANRRPSSPTSLDSLGALNSPSSPNSPSSSML
QNSEMFASPPIASGQSPVSTFRSWLDRSILPLTRENSASESAVTALGPSIVQPASESITT
PAQTSQSRHAIDDGDDSKTSTGRPAPTTNSPIIALPPTWIIGPEDPESTDPTAPTEPTEP
SEPVATDEPSETSEQTSPLLARDTPELNRKQL

>aaRXN00840 TRANSLATE of: rxn00840.seq check: 2272 from: 1 to: 714
VTKTLPRLLTVAAALAIALPATPVASAVTPVEQAFNASSNLSSGLPVDQWGRPNEQFRQQ
IEQAVNQPWVPQEIKNIVSQAMGFITGDGSEGGDIEIPDNAPRIAQFFWPTRSENCINGN
SAAVGSAFAVPGPADLPLPGAGVGQTSFVFTALGTGPLAEQQSTAMTVQWANLSNFTHGT
TTLSNTGINPDGPSTISGVADTGRGIIVASMSGGLTTSTENGSANCNFIPTAVVFDVR

>aaRXN00841 TRANSLATE of: rxn00841.seq check: 5409 from: 1 to: 537
MTDLHPVKQEIFNTAESINTDPKGFLREVDTFKVTDFGLYMARGANHPKFGYLESWLLPE
LGLRANIFHFRKGVDERQDYYIDVAEIRVEDNIWTTRDLYVDLISVCGEPVTVMDIDELA
AATSAGLITADDAERAIDATLNAVEGITRHGDDPMQWLRSKGIELTWADASQVELVPAE

>aaRXN00846 TRANSLATE of: rxn00846.seq check: 1812 from: 1 to: 870
MLKNDLSGARVVAVHAHPDDEAITTGGVLADLAARGADVTVITCTLGEQGEVIGETFAQL
VNGDADQLGGFRIHELYASLEILGVRGIHLGGAGCWRDSGMVGDPANEHPRAFIHSGDRA
VEQLKELLAELKPHLLITYGPDGGYGHPDHIRAHEITHAAAGEQRILWAVSDREELEDGL
KAITGLPEGWGRGELSAVDSVDLSVELNDEVYATKVESMRAHATQLWIADGSVSRTNPVA
AHAVTQQDNVKVWALSNLIAQPIMRHEHYQLGAGTPLPEGATGVLDGLEF

>aaRXN00850 TRANSLATE of: rxn00850.seq check: 9820 from: 1 to: 828
MANPFSKAWKYLMALFDSKIEENADPKVQIQQAIEDAQRQHQELSQQAAAVIGNQRQLEM
QLNRRLAEIEKLQGNTRQAIQLADKARADGDVKKATEYENAAEAFAAQLVTAEQSVEDTK
QLHDQALQQADQAKKAVERNSMALQQKVAERTKLLSQLEQAKMQEKVSESLKSMDSLTSG
STPNLDQVREKIERRYANALGQAELASNSVEGRMAEVEQAGVQMAGHSRLEQIRAEMAGG
SLTAGNKQESIEAPAAGNNVTDDAVAQRMRELRGEA

>aaRXN00854 TRANSLATE of: rxn00854.seq check: 1696 from: 1 to: 213
MRLSEFRQLIEDEFGEAKGEWIAHSHVIGALGVTADVAVDTGVDLRDVWEQLCIDFSVPE
ERRLGKDEPGF

>aaRXN00855 TRANSLATE of: rxn00855.seq check: 9166 from: 1 to: 285
MTYFAVLYTYNPDSEKVAEVRTVHREFIANLHAEGKIVGSGPFVDGDGGALIVIKLEEGS
NLVDAETLMNNDPFHVENVLDNRVIRSWNPVTKDF

>aaRXN00869 TRANSLATE of: rxn00869.seq check: 9381 from: 1 to: 921
MTPPIISPESFEALRRMRAAEPTMVAERFKQRRKRELLGEDGKLFIVAADHPARGALAVG
DNETAMANRYELLERMAIALSRPGVDGVLGTPDIIDDLAALGLLDDKIVVGSMNRGGLRG
ASFEMDDRYTGYNVSSMVDRGVDFAKTLVRINLSDAGTAPTLEATAHAVNEAAAAQLPIM
LEPFMSNWVNGKVVNDLSTDAVIQSVAIAAGLGNDSSYTWMKLPVVEEMERVMESTTMPT
LLLGGEGGNDPDATFASWEHALTLPGVRGLTVGRTLLYPQDGDVAAAVDTAARLVHTDIQ
QFTSQSI

>aaRXN00915 TRANSLATE of: rxn00915.seq check: 6638 from: 1 to: 630
MSAAYSQDTILTVFLGRGLTAEGIRQTLEDFAETGLVRNLVWIDADSFHESSSEVTHLAT
NQDGLPELQRRPFNELVSRSRTTKLHIGVINVIDGSEGMLHAEELNPLVGIIDSVCSHHQ

IHRSNVMIGAVAATLDEELPILRGYVNLMLAPEDSHSPGTATVTYRHGFSDHRLPCTAWL
ISPACTDCGKAAHPHQSNSSYLRKVPAFVW

>aaRXN00917 TRANSLATE of: rxn00917.seq check: 3769 from: 1 to: 2679
MVNTLNSKTVNVPRFARGVVAAATALFFGALVSLAPSALAQEPPAVEAGASGSLSNLGAC
IADKGTLDVIIMIDETESLIHEARDGVVNANEPGADAQHHRVPAAQSFVDELLAKQSDGD
LNTRIRVAGFGQTYKSGATDPDNYGAWTQLDASTVGGVQDEISRFADRTQEQYTNYASAI
EGAYQDFTRSGSEDACRMLVTFTDGALTAQEGADVAEAALCAPGGVTDRLRSAGITHIGI
GLSAPTNPSDFSLLRGTTAGGGTCGVEPANGAFFPADNVGGLFAAFREALAIGGETIGET
RAGDPFSFTLDNSVNSVRFTAIAKDDLGPNAHLVLTAPNGETVELKDSGSSVANSTDVSW
EAESSPVKMADGSLNLQQGGDWKGVWQIQFQGIDPAAVDGRVFNSVEIQPDLQLVFSGGD
STSGALNLRDDQQLNMQLVGRDGQPRILEGSALVDLGFTRADTGEFAPLAQGIDISGGEL
SFPLDTISQLPAIGTVEARTTITTAGVDDLPGTTLSPILNTTRITITQRDMPQLPASVRF
TADEDVVTVDIPITGPGKVWIAPGTQLSGVLPDGVDGIAASSTFDSPDNALVLGLDEQGT
IPVELTVSDLRDGLVNGSIPLQISNAEGANETSVDLPTEGTLSVPINASTFALAFILALV
LSLLIPLLILYIVRFLSAKVPSSAMSGVRIPVEFSGEALRYAGSTMPDLASQTTATKQVV
VHGDTFNVEGHKLKVQRFQLNPIASPAVIVQTDPSISFDGKQKGTQAKLPLAVQGSWFLT
ASGADPSKMELIALTNLPLEQGQIDRMIAGITSKAPDRARELQKLLDDAATSQPAKVPPR
APAAQGHVEKQAPSFGTGSGGGFGSSNGGGFGSGSGSNDTNGGFGSSGGFGAR

>aaRXN00921 TRANSLATE of: rxn00921.seq check: 1572 from: 1 to: 513
PAAILLDHIVPNFSRDRSLPDIEDWTRSDEAQQIFAGIIAGASVQTGRSHFMWDLLRAYF
GVALIGDEDTYRAFTTLTVDSVLSFVQLTLQEGRTEDIRRFEKYGEQIAREDLPSILTNA
RAVQQYLGYIDQDIINKKVSRSRDVNQIFTEMARAIIRAISRNNIGKDMRS

>aaRXN00943 TRANSLATE of: rxn00943.seq check: 2288 from: 1 to: 912
MIRKLARPMLASVYVADGAETVLNTSAHVEGTQVVLDRIRYVLPRKYAKRISRDPELVTR
VIGGTKVGAGSLLAIGRAPRTSAATLAILTIPNILARNAFWETQDADEKRNRRNGFLTNI
ALLGGLFITSVDTEGKPGVKWRATNATKRGKKQLQQALPTKSETEKFGEKASDWFNDTSD
KVTEYAYTAQDFVGENKDDWIKSATETAHKVADTVSDYAHKATSYLEENSGDWLEAAQAN
AKTARKSAVKAAGKAQEKANFALQVAEETSGRANKKATKSYDKLQKQADKAIDRAQKKLK
GIEL

>aaRXN00945 TRANSLATE of: rxn00945.seq check: 2895 from: 1 to: 972
MLERLKRLDPLIVLIVLAVIVAIIIPVRGVAADWFDVAVKIAIALLFFLYGARLSTQEAL
NGLKHWRLHLTILAITFGIFPLIGIGLEPMTAFVSEDIYRGILFLTLVPSTVQSSVAFTS
IAKGNVAGAIVSASLSNLAGVFLTPLLVMLIMSAGGGVHVDSQVFLDIAIQLLLPFILGQ
VCRRWVKNFAANKATKIVDRGSIAMVVYSAFSAGMVAGIWSTVSVLEIIYLIVFAILLVM
AMLWFTLFMATRLGFNRADSIAIQFCGTKKSLATGLPMAAVIFGGANIGLLILPLMIFHQ
VQLMICAWLAARYGRDAQEQKANA

>aaRXN00946 TRANSLATE of: rxn00946.seq check: 9850 from: 1 to: 774
MTHTLQATNPLDQTAWHAWHFSRNKEAISRTGATSLSATEWISATTLKDAHTFPSLPGRW
YKRGGGVVGAHLPPAFATTGTVQLRPGELLIAEDFTLTVIERLGQFALQVFDARNPKRFE
FHSIAAFPPSEEWRIEARFFPEPDTVNTAAADGVIVATPTAGWVHFLKGRLDYRLRVTVQ
KNNLRALFSDNSSTLGVYQHRFVDIPRPDAEGNTIIDFNRAYLPPKALNRKFLCPSPSLN
NHLNLTVEAGEKWVVAGG

>aaRXN00953 TRANSLATE of: rxn00953.seq check: 8687 from: 1 to: 753
MAPPTVGNYIMQSFTQGLQFGVAVAVILFGVRTILGELVPAFQGIAAKVVPGAIPALDAP
IVFPYAQNAVLIGFLSSFVGGLVGLTVLASWLNPAFGVALILPGLVPHFFTGGAAGVYGN
ATGGRRGAVFGAFANGLLITFLPAFLLGVLGSFGSENTTFGDADFGWFGIVVGSAAKVEG
AGGLILLLIIAAVLLGGAMVFQKRVVNGHWDPAPNRERVEKAEADATPTAGARTYPKIAP
PAGAPTPPARS

>aaRXN00959 TRANSLATE of: rxn00959.seq check: 3462 from: 1 to: 456
MTVIGIILGSLFGVLAVLLIVVGALGWAAKLPGNPVVGIRVPEVRKSQELWDMAHRVAGP
LWVLSGVSFVIASLVAFVASGWMWLVVALGVEAAIAFIGMGAGMAAHTVAMVDAKRIRET
PQAPVSAEIEEAGGVTITSADYQQDSAECPQD

>aaRXN00963 TRANSLATE of: rxn00963.seq check: 4671 from: 1 to: 837

MRLATIRTNGTTIAARVESENTATTIEGFANVGELLQESNWRELAENAAGEAVTFENKEL
DAVVPAPKKIVCVGLNYANHIKEMGRDLPDTPTLFVKFPDALIGPFDDVVVPEWANKALD
WEGEMAVIIGKRARRVKQADAAEYIAGYAVMNDYTTRDFQYAAPAKTPQWHQGKSLEKSA
GFGPWMTTPDSFEFGGELATYLEGEKVQSTPTNDLVFSPEKLIEYITHIYPLDAGDVIVT
GTPGGVGHARNPQRYIGDGETVKVEIAGLGFIENKTVFE

>aaRXN00971 TRANSLATE of: rxn00971.seq check: 9758 from: 1 to: 318
KALSIGTQWAQVMGINHAEAEELDEALSPLINRLREMGFDPTETEEANSLALHSCPFVVN
DKRPSAFVCAIHAGFIQESLGENNRIQLELKPLNAPGTCKVHVFSE

>aaRXN00991 TRANSLATE of: rxn00991.seq check: 2362 from: 1 to: 1380
MDILISILSLLGFVLLTASTGLFVAIEFALTGLEKSTVETHVKQKGDSSARAVQRDHQNL
SFVLSGAQLGITITTLATGFLAEPVLAKFFTPALELVGLNESASSAVALIIALLVATTLS
MVFGELVPKNWAITNPLGVARFVVHPVNWFNMVLKPFINGMNKSANFIVRKLGIEPAEEL
ASARSSQELTALVRSSAESGGLDQNTAAVINRSLQFGDATADEFMTPRSTIESLRATDTV
NDLIELALETGHSRFPVTEGDLDETIGMVHIKDAFSVVQAERATTMVRDLARKIPVVPAS
LDGDSVLNAVRSAGSQVILVADEYGGTAGMVTIEDVVEEILGEIHDEHDDSDAERDFQQF
GASWEVSGLVRIDELEKRVGYVSPDGPYETLGGLIMYTVGAIPRVGDVALLPLTDTPTMD
EFESGFSGRWIARVTVMEDRRIDKAVLTPITHEEAKEYEK

>aaRXN01004 TRANSLATE of: rxn01004.seq check: 9066 from: 1 to: 1062
VSIWATVLLIIVLLSANAFFVAAEFALISSRRDRLDSLVSQGKKGAEKVLYATEHLSIML
AGAQFGITVCSLILGKVAEPAIAHFIEVPFTSWGVPNDLIHPISFVIALAIITWLHILFG
EMVPKNIAIAGPETLGMWLAPVLIAFVKITRPLIEFMNWIARLTLRAFGVEQKNELDSTV
DPEQLASMISESRSEGLLDAEEHARLSKALRSEQRSIKELVIKDEDVRTLAFGKSGPTLH
QLEEAVRETGFSRFPVTGRDGSYLGYIHIKDILPRLADPEMDPSETIPRSALRPLSNVDA
DGLMDDVLDFMHYRSAHMAQVRLKGELLGVITLEDLIEEYVGTVNDWTHESSDD

>aaRXN01016 TRANSLATE of: rxn01016.seq check: 586 from: 1 to: 648
LLPYAIVGLVILLPSSWLPRWAVAVLGEVSLVPAVVFGGGFLLIPSMFLIGSALVRYGVV
DRAENAPRAMGVFFAVSAAIAIPTLIIQARDITSSGFSIVSTVAGLALGGVYISLVLLAL
HTPIRGALAAVFAPLGRMALTNYIGATILMLIGGLIVDLPHSTSWTATVLLAAGILIIQE
LLSALWLRHYTQGPLGYLWRWVTWGSRSPFLTRSAS

>aaRXN01023 TRANSLATE of: rxn01023.seq check: 9173 from: 1 to: 978
MSAVNSAGRPANGGINKTPMIIALVLSIVLVLAVLFGARVLLGPAGQQQIAMSGLPAPDA
ESAECAALLEDLPGEAFGHTRAEIMDPVPPGAAAWSTSDLERVTLRCGVDMPFQYTALAN
TVDVDGTTWLPVSDMTPGSSLETWYSVNRFPVVAITADDISTDSADNPVAPFSSAVDKLE
KRDGQPFDAPLTGLSSAGTTCTSLFDALPRQLEVGGDDGTTYERIEEDRMQAAGYSDDAV
AWDTPGLEPIVIRCGVEPSENYAAGAMLQQIDDIPWFEDTILASGTTSSTWYALGREIDI
AVSLPQAASSSLITISGFIEDTVPAE

>aaRXN01028 TRANSLATE of: rxn01028.seq check: 7950 from: 1 to: 2049
VIYPPLTPASEEKFNKITSVAAVSKRPTTLPYFRADGSPTRGFANFSTGGIHGAEYNEDR
FDHDQDLHTVATREFFAILDATLAALYAAHQAEPESADYQIAQDALAWAKNVLSDQKLIA
KSPQLYNPETGVTYEWEFVAQAAWWIRNKPVEVILPTGESMTVKHKSVLASASYPLRDNV
AYWRSEPKTPQLFPVAKSGGSSLEKKYNYTSVGTAIHEDFSSYYPLLLTNMAAFTNADLG
IDEKTGRPRDRYREIYEQKEIYGAQRKDPSIDEETKQRLGILREGTKLILNSATGAADAG
HDTPILMNNRVIAMRIIGQLFSWRIGQAQSLAGATIISTNTDGLYSVLDMGTNQRVLDEH
ATAIGVQIEPEELDIVSKDSNSRAEFLGNGYINAAGDLACWDGPNSRNSLDHPAFVDHVL
VKYFQLVVNNTVPEIPETPELEGVPLALDQPMNRHEVSKIVATMHKEFEPKKLLSFYQNI
LASSRGSNTFLFSVPYIPATEGEETHPATDTSTIATPTLSFDAYGNKAEVMPTQSTVDKR
VPSLLQYYTRTFHVRQDTQQAVFDVIGANPVLIAAAKAASISPASADSRRKKGLASTNAD
PVAKHVLEIAGADVESLRHEKDLKVTKHTGQDPALPVVVFNQTIWHNPNDDVINALLGAI
DQDAYIDMAISSYNKSWHNIIPA

>aaRXN01069 TRANSLATE of: rxn01069.seq check: 984 from: 1 to: 714
VNDLPNLPKLPFNWTWVLATVATTVVLAGIGLYVYYPSLPDPMPVHWNGSGEADNWTPKS
VGSFLSLILIGPGIILLTLSGMQALLTMQSGVITQRGGAKSANEAHRQWETYKATSMHMG
WYMFVLNALILVMILNEFRPNPLPGGFIIGLIGIIAATIVLLVLIGKTTTSLAKKYPMPD
QDGKTWGIFYNDPDDNRILVDTGMGMNYTFNIAHTWGKIFAVLIFAVPVLIVLLTVLL

>aaRXN01071 TRANSLATE of: rxn01071.seq check: 172 from: 1 to: 2064
LVVDSSGRYNVTITGLTTTETDSATALNLQMSEAGYLERYTDGATVPSVMLSAADGTTPQ
ELVDALAAELGSNFDVETGEALVEQATGMITQALSFVQYFLVAFGLIALLVGTFIIANTF
SMIVAQRMREFALLRALGAAPGQITRSVVLEATIVGLFGSALGVLGGMGLVAIISAVLNN
LGMPMGSSVGLTPSAVVTALVLGTVVTIVSAWAPARRAGEVKPVEAMRNMETTTMRSMMG
RTITGGIVLALGIIFAIAGAMMTDSSTATRSILVGIGALFVIVGTFLFSPALSMPVVGGL
GKVIGAPFGSVGSLAATNSKRNPRRTATTAFALTLGIALVTAIGMLSATMKDAVSDMMAE
QYTADYILQGPTNGSITMPKESVNDVRDAEGVADVVLVSMNSASVNGQASYSQLGQSVTF
VADGDLSKVISTESIDGSLDLSNPGVVTNQTFADENGWAVGDTLQLESMGQTIGDIELIG
TFTGNDAIGNMIISESSLADTPAADTAVPQMMLVVGEEGFDKEQLRTNLEDAVADYIVIS
VKSATEFAGETVAMIDTMMNILYALLALSVIVAIIGIINTLALNVIERRQEIGMLRAVGV
KRGQVRTMITLESVQIAIYGAVIGIAIGLGLGWAFVTVMSGEGLDAAVSIPWGQVGLMLV
GSAVVGVIAALWPAVKASRTPPLDAITD

>aaRXN01075 TRANSLATE of: rxn01075.seq check: 2212 from: 1 to: 411
MDNPVNILNEQEALERLQSVSLGRVVVRRSDEMDIFPVNFIVDKGAIYIRTAEGNKLFSM
NLNHDVLFEADEVKDGKAWSVVVRATAEIVRKLDEIATADTLELKPWIPTLKSNFARIVP
NEITGREFTLGEEPERY

>aaRXN01085 TRANSLATE of: rxn01085.seq check: 551 from: 1 to: 879
RKRGEGLDPNSPEAIEQAKKKGERKARNERCRKNFKGGGTKDLKQTDRTFDQLRKQRVTD
KARNRDVHNEQQLARGEIGEMRSPMWVEVGAAILGVFVLVVMWLAWGGIGLLIQTMMNTG
SPNDKELFDELGVRPYYVAVEQQIGTSSAHTTCYQPLDEFGNNFGDCTRSVPKEPVWYAD
YVASVFAEHGFDAPEPIDNSVGSWLLFGHVGIIRVTFVIAVAAGVYAMSRAAMMRQLETQ
NVAVDTTDINQHTNDARLAIPQEIVRDLSLFPDVGAHFTSPALKHDFPCDAVE

>aaRXN01121 TRANSLATE of: rxn01121.seq check: 3374 from: 1 to: 1086
MNPEFIHGATEIETTNRGLRPHRLSKEIVERYCDPQFSAMERQPSGVRVVCRTTATSVTL
TTYSTRVVYLDSGRPGGKIDVLIDGAPTSSTPTSGGETTEVNFITGATERRLKDPQVLTV
DGLSEQEKVVEFWLPHNEEIEVISLKANAALNTVEDTRPVWINYGSSISHGSVATAPTKI
WPAIVAQSKNYNLRNFGFGGSAMLDPFMARLIRDTPADLITLEIGINIVNGDVMRRRGLE
AAVDGFINTIRDGHPTTPIKIVSPFYCPIHEKTPGPGAFDTSSFGSGQIRFIATGEPDEH
GRLTLEMVREVLEGFVEKQKDPHLTYVDGASLYQASDAPLLDNLHPDEASHALIAQRLLK
QL

>aaRXN01128 TRANSLATE of: rxn01128.seq check: 7667 from: 1 to: 1014
MSFTFIRTFFVLFGITLLVSCVPEPPDSYTKESTVLRYQVSDFNLNFVELAVALGYLNNI
ELQVVGSVQGGVESIESLKKDDIDFAAVPFIGLVAGEIATGAPIKAVAASYGISHDSSSA
LLVLKDSEIHEVHDLIGKTVGINTLGALGSAMVERHLFDAGLTEPEIVSVTQRALPGEYL
EQRLYQGQVDAIWVTDSAKHQALETGDFRILAEDSDLVQELNTGCMVVSQKLIDEHPAVV
GELVDGVAQAIEFERSHSPEEVREVYFNYLEAHGQSDRISSFRYWEHSGIATRGGVLSDR
EFSMWSHWIDRQYDVPDINPASIYTNQFNPYRKVNPSP

>aaRXN01134 TRANSLATE of: rxn01134.seq check: 3892 from: 1 to: 771
LSLDQVPYTAQIVPLAVILTLLDAEEMATARSWDRLNQWFWSGVLGELYGSPAVIARSGR
DTDQVAAWIREGAGETAVVPKTIRDTVFHESRLLSATQDTGVWKGIFALLMGRGARDWRT
GQQFDRWTFDELGCNFHQIFPTKWCKERGIDPVLTESVLNRTPMGRRTEVVIGDTPPSRY
LSRVQSKSLMGDEEFDQMLDTHLLSAEDLHSSNTTHFFASRRTNFIDMVEDAIGKAVIRD
VNESDLTGGHDGPSVHG

>aaRXN01140 TRANSLATE of: rxn01140.seq check: 3026 from: 1 to: 933
MALDTRGEEMRFRPRALSGAPDTGKDPGLLLLDGQQRLTTLYHCFSGDGYVNTVDFRSKK
VTRKFYIDVAKAVESPVMSDEAIFSVDETGKIISHFGPVIDGGITDLETALAHGCLPVSV
LLDDNGTDFLFDLADMAGEGAREHAKRFQSQIVKTLVSYDIPMIRLDRETAKGGIGSIFA
QANSSGLQMDVFDLLTAVFAADESVETEFSLRDDWVRVERNLRQHSALDGIGSTEFLTAV
ALLVSARKGHASGYREDILNLTLAEYIPAADEMIKGFDEAAEFLRQRCIFESRPGSIHRA
DCSTGRDPHPA

>aaRXN01148 TRANSLATE of: rxn01148.seq check: 3053 from: 1 to: 600
MTSPVENVKKKPRPLALSPSRAGDYQQCPLLYRFRAIDRLPEPKTVAQVKGTLVHAVLEY

MHKLPREEREYPAMVKQLKPTWAQMCEEDAELKELVPEDELYDFLVDSRTLLRGYFEMEN
PQGFDATECEMYVDTVLPNGVPVRGFIDRVDTAPPAKSELSTTRLARNQSRSGASKRSSR
CCSMHWSTGACSMKSQLSFV

>aaRXN01153 TRANSLATE of: rxn01153.seq check: 8673 from: 1 to: 543
PFLSPIVTSTHAVVAYSTARGFGEHRVRWDYAQESPLRDTRGFDLRRYHQAPVVDPHAIG
VANVFVPNGARFYVDHAHPEYSSPEVTNAWDAMVYDAAGDHILMQAVSDVASFTSQNRSV
LDGHDPCPALKIYKNNVDGKGASYGFHENYLYSRETDFDVLAQALIPFFVCRQVIIGAGR
V

>aaRXN01154 TRANSLATE of: rxn01154.seq check: 4612 from: 1 to: 639
LSKKISLETTLNRGIINTRDEPHTDADHWGRLHVIIGDANMSQTANFLKFGMTSLVLDAI
EAGVDFSELKLKNAVSEVAKVSHDLSLTHQLRLADGSELTAIDILRRYLDKVQPFAETPV
EQRVTALWGEVLGLLENDLLSTSHLLDWTAKLALIKSFEARGLSINDPKMYLIDLQYSDI
DPQKSLYHALVSKGRMKTLCSAQDIADAAATSP

>aaRXN01155 TRANSLATE of: rxn01155.seq check: 3917 from: 1 to: 1470
VESALTRRIMGIETEYGLTFVDGDSKKLRPDEIARRMFRPIVEKYSSSNIFIPNGSRLYL
DVGSHPEYATAECDNLTQLINFEKAGDVIADRMAVDAEESLAKEDIAGQVYLFKNNVDSV
GNSYGCHENYLVGRSMPLKALGKRLMPFLITRQLICGAGRIHHPNPLDKGESFPLGYCIS
QRSDHVWEGVSSATTRSRPIINTRDEPHADSHSYRRLHVIVGDANMAEPSIALKVGSTLL
VLEMIEADFGLPSLELANDIASIREISRDATGSTLLSLKDGTTMTALQIQQVVFEHASKW
LEQRPEPEFSGTSNTEMARVLDLWGRMLKAIESGDFSEVDTEIDWVIKKKLIDRFIQRGN
LGLDDPKLAQVDLTYHDIRPGRGLFSVLQSRGMIKRWTTDEAILAAVDTAPDTTRAHLRG
RILKAADTLGVPVTVDWMRHKVNRPEPQSVELGDPFSLLNPQQPAQETALSILLLGGTSY
IAGEIATLTF

>aaRXN01167 TRANSLATE of: rxn01167.seq check: 6639 from: 1 to: 396
MADRVLRGSRMGAVSYETDRDHDLAPRQLVKYKTADGEIYEVPFADDAEIPEEWMCKNGK
LGILMEGEGVESKPVKPPRTHWDMLRERRSIEELDVLLEERIEALRKRRRNAAKLLKAQQ
EAEEAEKAAEEV

>aaRXN01169 TRANSLATE of: rxn01169.seq check: 2636 from: 1 to: 996
LKRVVEAWDRFQIPLYITALIAGALVGLQWPGSTGGFESAINPALMALLYATFLGIPITR
IGAALKDLRFLIVLMSVNFVAVPLVAFALSRFIAGDEALLIGFLLVILAPCIDYVIVFAG
LARAAQDKLLAATPILMLVQILLIPVFLAVFVGSDALGSISFGPFVEAFFLLILIPLVAA
AGTQQVARKWQVGRTIMAAAEAIMVPLMMLTLFAVIASQVEAVSGQFTDIATVVPLYVAF
LMVMIPIGGGISKLGGLGFKEQRAIVFSGATRNSLVVLPLALALPAGLEIAAVVVVTQTL
VELIGMVVYVRIIPLIFHEKQTYRKLSGIGES

>aaRXN01173 TRANSLATE of: rxn01173.seq check: 4063 from: 1 to: 615
MHVSTLPNKKLRTRIFAGTAAVALSLGVASCSNAEDAVDSATDAANSATSAAGSAINDAT
GTSSASTTEPSGTSGSDSGSDSAGGDTTEVESADGSTISIPTAVVTAANAAGFSTPESVE
EGPNGESLVTFPEGYIVNSAEGGAQALVGMIGETWIGEGGLSAAVGLPTGPEEATTNGWT
QQFTSGVISWLDDGSGQFAASVEPA

>aaRXN01174 TRANSLATE of: rxn01174.seq check: 9196 from: 1 to: 750
MSNMQGNDSKKSSGASRAESPLIKFRTLIIVIFVILIVGLASIAVGPVVYQLIMGPGVKT
EGIQADGAAPASTDMNGTWDVAPGSIPNTTSAGFTFAEILPGEEKITSGSTTGVTGEVVI
EDNSLISGLITVNMTHITTDQEKRDINVRTKLFHTDQYPEATFEVTDSVDLSALPDTGSI
AQVVIPGELTIHGETKAVEPTFDVLRTGDQVIVASDIEINRLDFGVETPEFIAAKINETG
EINVRIVLEK

>aaRXN01206 TRANSLATE of: rxn01206.seq check: 3690 from: 1 to: 300
VSAENTENTDSPFEISEFDDHRRPLQRALKFGSIALIVFTLISLAIWGATRGVPGVSAVV
IGAAVGAGFVLLTALSVLFTTNSNVTTTGAVVLGGWLLKI

>aaRXN01210 TRANSLATE of: rxn01210.seq check: 8240 from: 1 to: 831
MTTSHTARGLQHATPERRKTSFFKTSLFKAEWLQFRRNKTLLFMATVFPVGIPLLLFLIG
NGGAAESANSFDYFVMYTLLFVQFYTVLSMATTRRDERVLKRLRTGEARDIDIIGAICFP
GALLTLIFTVVIIPLLMVLGAPAPINLVPIVFAVLIGLLLCSALALMTSGFTRNAEAAQM

TSMPVFMLAMGGLGSIRFVFGDSIVADILAYTPFAAISDLVQIGWAGATFADSVGGVEAA
NFAGIFQDMLIPLGILAAWTAAAVWAANRYMRWDSYR

>aaRXN01229 TRANSLATE of: rxn01229.seq check: 2418 from: 1 to: 1278
MIISTNTAHPLHEPHVPSHHNRMNTLRAGVLGANDGIVSIAALLLGVIATGASDTVVFGA
GLASTIAGAVSMALGEYVSVSSQRDTERVLIAKEAKELAEDPTAEHVELSEILHSYGIXX
XXXXXAXXXXGXGDALGAHLQLELGIDNEQLTSPLAAAFSSAVAFLLGALLPMVXVFXAP
XGWDAGVXFVVTXLVLAXTGFISXXXXGTXPMRXCXXXXXGGXLXXALTXPSWXXXXXAX
XXXXXXXXXXXXXXVXXXXXRRXXXXXXXXXLXXXXXXXXXXAXXGXXXXXXXXXXXXX
XXXXXXXXXXFXXXXXXXPPLSGEILLAGLGGEIGMGEPRIPVTTGDLETRGLQCLGKL
GQWPPVGGGHGMIHRFQRRPGEKGHQQATTILHRHPQCDQGVGQLARAHVDQGVPGQQAC
PALRRV

>aaRXN01231 TRANSLATE of: rxn01231.seq check: 7153 from: 1 to: 243
MLGYTFVIFILAPFLILTGIAMAPAIRSRFPWYVKLFGGHQGARSLHFIAMVLMTGFVIM
HVGLVFWSMATTTWSTWSSAI

>aaRXN01246 TRANSLATE of: rxn01246.seq check: 4104 from: 1 to: 507
MKRTITIAALALTSTLVLSACADNTEGENTDTTTIATTSAPDTTETTGATTDPETETGAA
GEVSAEHNDADIMFAQMMIPHHQQAVEMSEILLAKDDIPAEVIEFTQGVIDAQGPEIDRM
NTMLETWEEDPVTGDMGEMDHGGMSGMMSEEDMTALEDAQGTRGCPALP

>aaRXN01249 TRANSLATE of: rxn01249.seq check: 8446 from: 1 to: 471
SQIVAVSSHGLTTIQEIDVKRAAIAAAALTLALTGCSAADPEPTADGTVSQDTFLTTHGL
AAMDAVEIIDHLDRQKVTERPTDLIASVRADELLLSSDDQEVVVDLPDNQTYVSIAPYLN
STHDCFYHSLTTCLGDLDNEDIHVMITDEATGEVLFD

>aaRXN01251 TRANSLATE of: rxn01251.seq check: 4314 from: 1 to: 309
MTQPDMSQILAQAQQMQAQLQAAQQEILATTVVGNAGNGLVTVTMAGNGEVSAVTVDPKV
VDPEDVETLQDLLLGAFKDAHNKVANVAEEKMGPLSQGMGGLF

>aaRXN01263 TRANSLATE of: rxn01263.seq check: 84 from: 1 to: 912
LTPYDPTAVNKESEKEAAKNLFGAEALTVDPDAGEVVDRVDNFYPTTAKAKRDYPSNYAA
GCHQEVNETSPESCVYGDKNSDFSVALVGDSHAGHWLPALEPIAEAQGWRLEVYTKSQCP
LISTAIKLGETFYAECYEWNEKLLAKLTGPSAPNHVIVSSQRYASANPLIDSVATGTVSE
GYEMAWNSLKDAGVSISVLLDTPRPQIDIPECVASNRDNLSECSVHRSVALGTEAHPQQK
TAAQNIDVPVLDLSNWICPEEYCSAVIGNVLVYRDSHHLTATYARSLSSALWNELVASNG
EPFK

>aaRXN01266 TRANSLATE of: rxn01266.seq check: 6088 from: 1 to: 1035
MPKVSVVTGFYNRCEHLERTIESILNQTYSDFELIVFDDASTDGTASRLLELKEKYDDPR
FRFIIHEENKGFVKGLSEAISGAKGQYIAVQGSGDVSLPRRLELQVEFLDANPSVGAVGG
AIYNIQEDTGTRNPQRFEKPIATFDDLLTSNPFTHGEVMYRLDLYKSIGGYRSGFTFAQD
RDLWLRMAKKADLGIIPDFLYHRYTLLDGVSFVPDKTIRQRCFSEAAVRLALMPEEEGAL
AYSRLEAEGPTAVVPIADRAVQKFVPKAAIRLCLYGAPETGLHMARDYIQNPLRRTIVVV
LISIYSSRLIKPLQDILYKSIFKGVSISKPIKSSLVKFTRRIQGK

>aaRXN01275 TRANSLATE of: rxn01275.seq check: 5209 from: 1 to: 918
MEKIRSPAVQSDALQVFKSALAATVTWWISVNLLNSQLPFLAPWVALMTMQFTVYHTFIS
GIQTAIASVIGVGLSFVIGTYLDVSVWTFGLAMVIGLIGARVPKLRAEGIGIATTSIFLL
ASGFDDQQPLLYDRILEILLGVAVAIAINLIIFPPLRDQEANMVVGNLDRRMGEVLQKMA
DELAEKWNIDNADEWLEEINSINNDLEKAWHSVRFVRESRRVNPRKIRIQEGRPQPTETS
YESNLTSIDEGIAHLRHLARTLRDTPIIDSDWGSSIPATVGIPYARCRSFARRSESGNRS
YPRPAL

>aaRXN01276 TRANSLATE of: rxn01276.seq check: 3553 from: 1 to: 444
VSSELSSGTSSGSSEDSEDSDISNRDIIFGIAAIAAVGGLIASGVHWAVQQRMIPNPLPG
IIPNPPALAPQAPAPAPAPAPAPQAVAPQVVAPQVVAPAPAPVQTNRTYKNCTEVWNVLG
RSIRQSDPGYGTHLDRDRDGIGCESRPR

>aaRXN01281 TRANSLATE of: rxn01281.seq check: 193 from: 1 to: 762

VGLSRSHYQLAAENTKSLVRMVPMTVPQGNEPAKKLATDLNRNQVVDELSAAVSRGQLTL
EEFEDRSSKAWNARHLDTLVELISDVNDNPYTLLGQQFPGASYAPAAYETTPPAMPNVSD
PVNIVRNRITGNPNGSKMSVSFMGGTVRKGGWHVPNVHTSFAMMGGNQIDLRDAFLESDR
IQINAYTFMGGIEIIVPEGVFVICDGMGIFGGFEQSVDKAGALNPARLPSNAPTVHIKGL
AFMGGVSVVTKKNI

>aaRXN01296 TRANSLATE of: rxn01296.seq check: 1595 from: 1 to: 1083
MSIEQAITSLSARVRELKPIIETEEATKTALIIPFISNVLGYDVTDPREVIPEYTADVGV
KKGEKVDFAIKTGDDFHFLIECKKVGSPLSLDHANQLVRYFNVTDTEFAILTNGEIYQFY
GQLDAANRMDAKPFMTLDLNNIDARQFPHLEMCTRKHFNPQALAANAEELKYIAELKKVI
ANQFQEPDVEIVKMLAATVTTKRMTAQNLEFFTRLVNTASSQFLKDEVNRRLRSAQVFED
PVQTQGADAETPAEDEAVIEEVVSEIVTTEEEIHGHSIVRAICCSEVSAQEITMRDAKSY
CAILFQDNNRKPIARFYFDRKIPRIGIFNAEGEQEHFDLESIEDIYNHADLLHSRVVALN
A

>aaRXN01301 TRANSLATE of: rxn01301.seq check: 6647 from: 1 to: 525
LIVDTQFEKIPAHDVVGIRVILSSEDLPELFKRGYAEVKKFLRLEGIEPKGPARAYYFGD
VSDTVDILIGFPVSPAQAESLRRGALSQSGGDIDDVVLHHFRDMKTMHSRHSGPFDGVER
VWDEILDEVEDLGCTLPSSSIGWEEYIEGPATADTCDQLASEVYVQVCQAPVKSA

>aaRXN01306 TRANSLATE of: rxn01306.seq check: 7259 from: 1 to: 1008
MTEWYVVLPATILLIALSAFFVIIEFALLAARRNRLEETVETSRSSRAALRSLNELTLML
AGAQLGITMVTFALGAITKPWVHYALMPLFEWARIPLVMADVIAFILSLFIVTFLHLVIG
EMAPKSWAIAHPETALRTIAIPARGFINLFRPLLQWINKMANDLVRKVGETPVDRAAAGG
YDTDTLHALIEHSRETGALDQQSAAQISGIIKLDKITVGQTLTASPFTHSASATVAEVQA
AAQRSGSLRVLIDAPSHLFPHVIHVRDTLGASPDEKASKWSRPILTVAETDTLHQALEYM
REHNEQISAVLSADGKTVLGVITWDHILKYLWPASV

>aaRXN01324 TRANSLATE of: rxn01324.seq check: 6882 from: 1 to: 300
MSNSECHTHGYIEEKQRYLARLKRIEGQTRGIHRMIDEEQYCIDILTQISAVNSALKNVA
FGLLDDHLAHCVKEAADLGGDELDAKLKEVSDAIARFSKA

>aaRXN01326 TRANSLATE of: rxn01326.seq check: 1197 from: 1 to: 366
MAFPVTEDKILAAEETLGRRLPETLRERLLQNNGGEVIDNENNDWILHPVRDDSDRKRLV
RTANDIIRETESAREWDNFPENAIAIANDGTGDLIILLPDDDAFYIWSHEDEPLIETELE
DA

>aaRXN01331 TRANSLATE of: rxn01331.seq check: 1587 from: 1 to: 2397
MLTTLWIAVLVFTVPGLVVSWVSGLKVPWAIAASIPATFGIYGLSAWLLGLWEMRFDLHS
VVISTLVFAAVALVWRLFFVGGWLVRRRKARIRRQTLADEERAENAEVSAGEPAESSTNE
AAESESETSERRGIWRVIFDYMRDGGILDHRWLLPAAGAITGAWLIIDRAVDLLLSTEHG
LGDIVQGWDVHWHASTVRFIDETGIASSTMMGQLRNIETQQDLFYPSAWHAGAWVLSDVG
NLTIVEATNLTGIVLSGLLLPLAVALIAWRMINNRGLTAQIGAGFAGLITIASPVLFWVG
NYVGAWPYVAAIGASGVVLALFMSTPSVPVRIFAAALAFMGMFQLHPAPSTIVIMVLLLW
WLLKLVVVPSQKVKGWKAGIGIRLKDVGILAITGIIGVLFMLPQVISGSEQTEDVLSYSA
EEQVTRSESWLVSIFMETRHVDFFGNIDIVPVLVFAAIGGVVALVWRGNLWAPVFYFASV
ALTANSLKPFEEPWGDWLNIVGGLHYSTGHRLIMPVAMFTFAAAGIGAAAVIRLICLGPI
KKFTTVSGVVSVVMALVVAVPLQTWAKDFVEEGSETTILAPHNDERMVSNNDLAAWDWLI
QQPGGADMNIMGDPADGNGWMYAYNGLHSVARHYAWPAAGEGSATAMLFWWPQLLGVGTD
ENPDQVNDVDQAARDLNVGYFMISPWTFWDFQIPNFRQIDLLWQTPGVTPVCKKGDSVIF
AVNDMFTDAELDQMRAPGNSPEPLPELPTLGELGLAETEDEVDQTYYHRPTVPAGVNSEM
PSAETLYAPDPTKPHTVPN

>aaRXN01337 TRANSLATE of: rxn01337.seq check: 282 from: 1 to: 1413
VTFRGGNTGAKHAVVVGSGPNGLTTAAVLAKAGWQVDVYEAAPTPGGAARSESVLGEGTI
SDLGAAGHPFGVASPAFHYLGLEDHGLEWAYSPFAMAHPLDYGRAGLLETSLPETAKKLG
PDARRWKNLHQGLTKNIDKHLANLLGPVLKWPAHPIRMAKFGPFALLPAKRLASAAFETE
EARSLFIGSAMHSVTPPHKPMTASLGLLFGALGMSRGWPVAVGGSGRIVDALVNVINHHG
GTIHCDSQIDSLSQFRDTDAIILNQTPSQVLKLKGTDLNAGLPQRMSTWKHGPSSYKVDY
LLDEPIPWSNPQVGQATTVHVGGSSEEIAFAEAEVAAGRMPERPFIILCQQQVADPSRAR
EGRHVVWAYAHVPRGFVDKRAALLITAQIERFAPGFRDRIVHSVDTNAEDLEAWNPNLVG

GDITAGSALLRRMPTKIGEKTYMASASNAPGGGVHGMPGWWAAQAVLADHR

>aaRXN01351 TRANSLATE of: rxn01351.seq check: 2597 from: 1 to: 585
MTSLFDAPTLQRVTVFTGSALGSSSLYTQAAQTLAKTAVDRGIDLVYGGGKVGLMGIVAD
AFLESGGEAFGVITESLMKGELGHEKLTELEIVPDMHIRKRRMAELGDGFIAMPGGAGTL
EELFEVWTWQQLGIHQKPVALYDVDGFWQPLLEMLEQMTQRGFIKRDFFECLIVESDPHA
LLKAMQTWTPPAPKW

>aaRXN01362 TRANSLATE of: rxn01362.seq check: 8917 from: 1 to: 3654
KWLGTPAQSLFLIPPVTQHARTGTHLYDSLQLLFTLVDKGHHPTDAKAVAFDAEAGEEGL
HFRNLSADLFLPAATELIDRVGLSNEALNKVLENLLLSRVQSGKDRGFISYATLGVTELG
QVYEGLMSYTGFIAQEDLFEVAPHGKADKGSWMLPVSKADEVPADSFIEVDQEAPGGGVI
KVRKRHPRGSFVFRQSSRDRERSASFYTPQVLTSFTVTQAIEELQASKRITTANDVLSLT
ICEPAMGSGAFAVEAVRQLAELYLELRQEELEQQIPAEDRAKELQKVKAHIALHQVYGVD
LNSTAVELAEISLWLDTMNAEMDAPWYGLHLRNGNSLVGATRSLYAPSLLNKKAWLTATP
TRYRLDDIAQAIDENKAEPLFNHGIHHFLLPSTGWGATADAKDLKDLMATEIKELKSWRT
SIRASLSKTQIKQLNNLALRVETLWRFVLMRIRIAESQISRSTTLWGQEPAEVSEVVTRE
QIEQDLFGNIDGAYNRLRLVMDAWCALWFWPLDAVATAEHPERPALPDLDEWLATLTEIL
GIDLPLKSKNENQIVLGPDTNWLAINDAEATDLGFSGALSFERVSANHPWINVARQVAKQ
QSFFHWDLDFAHVFAKGGFDLQVGNPPWVRPDVNFEDLLAEHDPWWAVMSKPTQASKKER
QKNFHNNPKSLEHVVSGAGEPVATSAILGSVTLYPHLKDQRPDLYRGFMEKTWSNASPAG
AISLIHPESHFTEKKAAPLRRGAYERLRRHWQFINELILFDVHDLVKYGVHVYGAPQESI
NFLSAASLYHPQTVLDSFDHDGSGNLPGLKDDNGNWDRRPHKDRIQLVNADTLTVWKSIL
EDEQTPYLDTRMVYTVNTEAAAALEKLASAPRIKELGLQFSSGWNETTDKKKGYFDVGWG
YPASWSDAILQGPHLGVATPMIKQPNPTMKHNQDWSEIDFEAIPANFIPATAYQPDRQTK
PTYDADYGTWTFGDKQVPVADTFRIAWREMAATTGFRTVYPSVIPPGANHVHTVNSAASR
SNLKTILVGAQLGAILSDYFARSSGSSHIFNDIVRKIPLPNFTSLEKQFARTYLRLNCLT
SAYAPLWEEITGEPWDVQVPLRNAEQRRAAQNDIDAMVALSLGISADELCMIYRTQFPVM
RRYDQEDHFDANGRKVPKEIIKLQQKLKDGQELSVEKRTWVHPQSEVSYTFEYPFRVLDR
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>aaRXN01379 TRANSLATE of: rxn01379.seq check: 3028 from: 1 to: 942
MSAFDSILNVEEWISDHYLTNDDAKGASFSKRVRERIKEWKTTEDATQQSGPLTRFSSNR
LQLQHALSELDDATTAASLVASALGYGVPSARHAQRGSDTISYSSWVGNAGSVEFLAATP
AESFEENFRSLPLEPVAVNDKPQDITAAKLVGQIFLSDTPPAFVVITAGKWVVLAERETW
PLGRHLAIDISLVVERNDTKAQGEMQQTVVALARENTERAADGTTWWEETIEQSREHAVK
VSGELRSAVRESIEILGNDVLTRYEAKELSTAEIDGGELAKQSLRYLYRILFLLFAEASP
ELEILPTGTPEYDE

>aaRXN01390 TRANSLATE of: rxn01390.seq check: 97 from: 1 to: 657
MFRRSLPSNKTSSASSASSADTSYSVRLGRPEEPGYQPEPSYSEPYTDSDFAPAGAAAAA
AAVAPPMIAEQPQIVEDARRGTLDFGLLIIRAVIGVYLIVRGVFTFFTLGGSAGLAGLEA
EFAGYQWPEILAILLPSIELAAGVFLLLGLMTPVAAAVATVATSFTTLHQVNTHEGGWGE
LSEPLMLALILTIVVVGLQFTGPGKISLDSGRGWQSVHW

>aaRXN01391 TRANSLATE of: rxn01391.seq check: 3163 from: 1 to: 690
VAAVAFAAYVIDGGVEEASGTPTSSESSVAATAPAASSETAAEYRAMLASLDVKGRAPGT
GYDRELFGPAWTDTVSVEYGHNGCDTRNDILQRDLDDIQLREGTKDCIVTSGLLSDPFSG
ELIDFVRGERSGDVQIDHLVPLHDAWVKGAQQWDEQTRKNFANDPDNLLAVKGTLNQQKG
AGDAATWLPPNTAFRCDYAKKIITVKDRYNVWVTEAEASALERQLDTCAA

>aaRXN01400 TRANSLATE of: rxn01400.seq check: 8655 from: 1 to: 1500
MAISVSMPKAISREELERAWLEVIERHGTLRTVFSTGMGGEVQQHRIDVGPGKWIDHAVA
PGESINEALRAVLNRQCSPYSRPSHSLCIIDAHPRPTVIIGSDHSHVDMWSMLVIVRDLL
AALDMELPVEPPLAFESHTAELLAAPPAPERIHQRWREILEAGGGKMPQFPLPLGDAISM
PERVEVRDIFGVNGLAIYSARARAQQVSSLALTISVMADVTAALADLPLRAVFPVHSRFD
QRWHDSVGWFISNSVIEVPDSDPHTAAQAVREAVSLGSYPLAELLEPWGGMPETPGMFAI
SWLDLRRLPVSIDDIGLQAQYVSASLRTDGVMLWFILDRSGAHLRCRYPDSLVARENVGR
WIDAIVAQMRAEAGTVNLQAGGEQLTLRHGTRADISEIAPLLARNAADPCELVDLEHALD
LLTHESSHFLAVVRNARGKIIAAMQLTIVPEFSRGGALHLHIEGPFIIPEYRTTDLDKKL
RAWAVEHGRARGVKVEEVVG

>aaRXN01403 TRANSLATE of: rxn01403.seq check: 3765 from: 1 to: 648
LVRGRGYFNAVDIYETSTQPDQEFPFDFDTFSADPTPFQLSAVRADTGETVFWGREDTPD
LSALMKRVRASSTMPGFMPITYIDGHPYVDGAVGETGGLMLQPAIDAGFTRFFVIASRPR
DYWRKEIGRPGFIKAALRRFPTIADLTIARPALYNSVKQQILDLEKQGSAYVFFADNMNI
QNTEINLKKLRASFDAGMQQTRKDWPEIMSFLNQTR

>aaRXN01409 TRANSLATE of: rxn01409.seq check: 6984 from: 1 to: 822
WVDFPDVTARLGYEYMQLTPHVDFGPFFRHPKADDDLVAALKKRAKDAGVTIPALLPVQR
ISWPEETQRVAAVRNIKRIIQLAVDLEVDTLNTEFSGRPERSEDSEDAFYRSMEELLPIL
EKEGIKFNIDPHPDDFVENGIEAWRVIRGLNSKQVGFVYVAPHSFHMGDQAEAILPAVGD
RLGAVYLSDTFDHHKSHGLRYITNPPGNAVRVHQHLKIGDGDVNFEEIFSLLRSTGYLDR
EDALLVSNVFAEDEAADEVSRYQLEKIRSLIENA

>aaRXN01422 TRANSLATE of: rxn01422.seq check: 4360 from: 1 to: 972
MAQRKLASVIGAALAASAVLVGLMTPATAQSSGSSSTDITRALTSSGGVADSRAPEGGAK
VVVFGDSHTSGTNAPFRTDERGCLKGANNWADQLQSQLGLGAGDLIDVSCSGASINSDGF
HFSDEVRHAEARGAIGPNTTDIFVQLGKNDQWGLSNVNLLQSVQTCLTDVFAGCGDAAVA
AGKMQDPNAVTAENYAERMKPVIDYLKYYAPNAEITLVGYQEYTARSGSQVCVRLGGTPL
VKNDAPALVSFMNKLDMAIDGAAGILGVSHVDLRSATEGHDSCSNDPWVNGVFDARAEIV
GGPWHPSVKGDSVTAGILRDRVNA

>aaRXN01434 TRANSLATE of: rxn01434.seq check: 1389 from: 1 to: 2952
VLGAVLTSLVIPVLTRAEKEDADGGSGFFRRLLTLSVTLLGGVTILSIIGAPLLTRMMLS
SEGQVNVVMSTAFAYWLLPQIFFYGLFALFMAVLNTREVFKPGAWAPVVNNVITLTVLGV
YMVLPARLHPHEQVGIFDPQIIFLGVGTTLGVVAQCLIMIPYLRRAGIDMRPLWGIDARL
KQFGGMAMAIIVYVAISQFGYIITTRIASIADDAAPFIYQQHWMLLQVPYGIIGVTLLTA
IMPRLSRNAADGDDRAVVSDLQLGSKLTFIALIPIVVFFTAFGVPIANGLFAYGQFDANA
ANILGWTLSFSAFTLIPYALVLLHLRVFYAREEVWTPTFIIAGITATKVVLSLLAPLLSS
SPERVVVLLGAANGFSFITGAVIGAYLLRNKLGLLGMRSLAKTSLWALGSAAVGAAAAWA
LGWLIQAVVGDFLLGTLSSVGYLLNLAVLGVFFIFVTGIVLSRSGLPEVQNLGQALTRIP
GLSRFIRPNTKISLDVGEVSEQDFSTQLVAPSEFAATPVPPPMSAGIVRGPRLVPGAPVG
DGRFRLLADHGGVQGARFWQAREIATGKEVALIFVDTSGNAPFAPLSSAAAAGIAYEVQR
RTKKLASLGSLAVAPNIHSEAYRNGCLIVADWVPGSSLSAVAESGADPRAAAFALAELTE
TIGEAHEMGIPAGLDNKCRIRINTDGHAVLALPAILPDASELRDAKSLASAAEMLIDATL
APSDVKAMVTEAQGLATEDNPDYASLAMAMRTCGLFTEEPTHLVVKKEKTPKPATRDGFG
ASDYTVKGMAAIAAVVIILVSLVAAGTAFLTSFFGSSTNEQSPLASVEATTSATPEPVGP
PVYLDLDQARTWDDGAGTDVTDVTDGNTSTAWTSTGGDGLLVDLSTPARLDRVILTTGTG
SDSNVTSTVKIYAFNDASPHSLSEGIEIGTVDYSGRSLSHSIRDSSKLPGQVESVVILVD
EVRSSQTSDTNPQMQIAEVQLVGW

>aaRXN01448 TRANSLATE of: rxn01448.seq check: 5425 from: 1 to: 1167
MAKKKLGTVARLSELDKSLRNRLLRVRSRLLFIVHSAIGAGVAYWIAVEVIKHGQPFFAP
MSAVIILGLSGGDRIKRATELTLGCALGVGLGDLLIMQIGTGYWQIFVVVGLALLVASFV
SPAPLVSNQMAIGGILIATMFPPGDGGSIDRMIDAFIGGGVGILVIALLPSSPLDAGRHQ
VANVLGIAASVLEDVAASLKAKDAAKLNNALEALRRSQASVNKLETAASSGKEATTVSPF
LWGDRARVRSLYRILAPVDNVIRNARVLARRAVVLTEDNDTVSDEQIHVIEEIADIALRL
SDLYEHHKEISEALEIPELVNRLRQLGSEVGEDIAEDRVLSAQVILAQSRSIIVDLLQIC
GMSRESAVAVLVPTSESPAYPPELWDDED

>aaRXN01459 TRANSLATE of: rxn01459.seq check: 4910 from: 1 to: 810
MNSNGFGFSFGNNDDDDDKNRNNDPFGLFGGNFGFGGQGGAGGPGGLGDILNQFGQMLSG
MGDSMNSPEAAGPVNYDLAARIARQQIGRVAPVKDSEKEAVEESLRLAELWLDNATQLPT
SGHRVEAWNPENWLENTLPVWKRLVSPVAEQMNKAQLENLPEEAREMMGPMSSLMNSMSS
MNFGVQLGNALGDLAKQTLTGSDFGLPISPVGVSAVLPGNIAEASKGLNVAPQEMLVYIC
AREAAANASSSTCRGLSSASFPPLRNTPSA

>aaRXN01460 TRANSLATE of: rxn01460.seq check: 5642 from: 1 to: 294
VPWLVERLVSSVEEYAVGLEIDTSHIQEAMGNFQMDNPDPERLQEMMNELQGMDLSPRIG
SRNANAVSRLETLLALVEGWVDIVVTQALSERIPSPTP

>aaRXN01471 TRANSLATE of: rxn01471.seq check: 6310 from: 1 to: 807
MQSFKTLESWPVDNVSASVISDGAVHFYGDVDRVFELMSVTKLLATYGFLVAIEEGVFEL
DSPMGPEGSTVRHLLSHASGVAFDKPVAEKGVGERRIYSSAGMDILADAVAAEAEMPFAE
YLREAVFEPLGMENSELWGSAGHEARSTVADLTKFGQELTAPTLISPETLAEAFQVQFPE
LIGTVPGYGMQKPCPWGLGFEIKGQKSPHWTGDLMPENTAGHFGQSGTFFWTVPGSGQVG
VVLTDRNFGPWAKPLWTAFNDEVWAELNS

>aaRXN01479 TRANSLATE of: rxn01479.seq check: 8990 from: 1 to: 240
MIQLVIGAAAGYVLGTKAGRKRYHQIKKGYEAAINSPATKSAVNAARKAIANKLDPQPRM
KEVKNLRTADGHEVLEQDQD

>aaRXN01484 TRANSLATE of: rxn01484.seq check: 1102 from: 1 to: 546
VLGTAQYDGVPSRQFAARLRHAAKLWRLHEIQHVYTVGGKLPGDRFTEAEVAREYLIKEG
VDPDLIFVSAVGNDTVSSYEALDPEKLGRVLIVTDPNHSYRAVRIARRMGFDAKPSPTTY
SPAKFPSIVYFLTLSHEWGGVVVQDVSRLLGERVPDKVKHLCAQSKVCCALRGVHAMSNF
GG

>aaRXN01485 TRANSLATE of: rxn01485.seq check: 9216 from: 1 to: 2052
MNFSLVHLRENVRRVSVTVAIGAGALLISGPFFTAHTAEATETYVLAESPEFYQDNVTDY
TGQISSSDITNIQAAIDDVKASEQKVIFVVFLSSFDGVDPETWTQQALQANGGGNVLIYA
LAPEERQYGIQGGTQWTDAELDAANNAAFQALSQEDWAGSALALAESVGSSSSSSSGSSS
SSDFSGAWLAAAGVGTVAAGGGIWAYSRSRKKKTSAATLEDAREIDPRDTNRLMQLPMET
LEHLAQEELTSTDDSIRRGKEELAIATSEFGPERTRSFNRAMNHSTGTLQKAFEIQQRLN
DSIPESEAERQSMLVEIISSCGQADDALDAEAQNFADMRNLLINAGSKLDALTQKSVDLR
TRLPKAQETLAGLRTRYSAEVLESIDDNVDLASASLDEAEEVLPQAYEIESMPAGEQGGL
IDAIRHIEHAITTADKLLAGVEHADENISTAKANVADLIQEISDEINEAGQLKQSAGADG
ARADWASLDDAVRAASAALITASADAEKDPLGTYTELVDVDSALDTQLDTLRATAADQAR
QLRVFDQQLQSARSQIQKAEDLISTRGRIVKSEARTHLANAQKLYAMAQQNRTRDTRAGI
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>aaRXN01492 TRANSLATE of: rxn01492.seq check: 9162 from: 1 to: 804
VTTTLWAVSDLHAAVKANADPIENIQPKDPSDWLIVAGDVAERTELVLEILARLRRRFAK
VIWVPGNHELFSRSADRYQGRDKYSELVEGCRKIDVLTPEDPYLTFGGVTIVPLFTLYDY
SFRRPGFTVEQAVQAARDRQVMMTDEFSIAPFVDIRAWCWDRLAYSIKRLSKINGPTILI
NHWPLVVEPTYQMRWQELALWCGTRHTRGWAERYNAEAVIYGHLHMPGITNVNGVKHIEV
SLGYPREWEHWSGQHVWPYPVMEVDNAG

>aaRXN01518 TRANSLATE of: rxn01518.seq check: 9224 from: 1 to: 474
VAFMQKTSAGWLIATGGFLAAVSAILTWRFYGSMTSISITVSITFWLLAVVCGFAGVKVQ
GRLDEGLIGQDKSQMNPVTIAYLAMLGRACAWGGAIFGGVYVGIGSYVIPRAGELSAASN
DLPGVIACALGGIALSAAGLYLERSCEAPPPQSGEAIS

>aaRXN01539 TRANSLATE of: rxn01539.seq check: 9014 from: 1 to: 2166
VVTVAGNEKNKIREERVARRAQAVVEAEISLAAQASEQVREQAEAPDVNEQVEEVSVEVS
SVQSLTQPKTLGQLHDPRKNVMSSSDLASIIGVEQQPVAYGESEEPETLRDVLPRRKLHP
SEITPSYEVADGEQRSIFGESAPSDFDDLSDVEEFDTSHWVRAGQDDRSDDDRLADEAGV
PRSGAQDVADNEANLSGVDEQLHMREVHAQSFDPIDVAKKERKAAEKKYAKPPKSDNPYL
ARDAKDAAARKRKINAAHDNFAQEMAQAAMGPLRKGVNTQTVMAACTTAAVMWCMSPRMT
GVNVDMKRKFNKDLEQAKDTKLSKYVSKDFWKSKLTRDKTEKEAKSLSDAFMQQKTAIIS
NRERIPMSVASAAQTVVRLSDQAYEAMREVDTDGQAIVDAKDVSAQVAEDIDMVVKQGEE
HGLKSKDIYGAARDIVGRRMERDPGYAARFNETAFGTVRLGEQRRGMVISKTPTWQFPDG
AGLSKNAGWFSVREPMGNAQNFADNLAATLATEMRVAGEQYGSDGVRDVVAGFMTATDVS
ESGLASAKKLLPDFDTRGRSASRVRQIAMAQRTQAAIKVLQDDGNQTAMTTEQVKEVQVW
AMDQAEKVMQRDHPAILDKFVRKHGQTFGQDADAFVKSITMEKDTSSEYTDAMVRPQENR
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GY

>aaRXN01549 TRANSLATE of: rxn01549.seq check: 789 from: 1 to: 1659
VANDFIEPNDAPDAPDNGDSGSSGFVDEAKDKTRSAAQGLGYGALRVGFGTAALAANGAR
SMGNLAKNLWTRMMGLALSAGTGISAATGGMITARVGAMLAGTGSVLSSVTTIALIVSMI

VVPAGRKDGIIELCEPPVTANPFTIDAGDMTENAKLVYGALSYLGMNDQNIAGVLGNFET
ESGIDPTAVEGIFDEPNTIGPRKRAAWDKNFEPQPMGIGLGQWTAGRTQMLLDFAADRNR
DWHYIDVQLAFAISGDNESDRKVFLEMVDNKNSSSNSPTAASEYFLREWERPADVAGNAP
IRAEQASKWYAQMGGWQKNSTLGESVIAMADGAAAKSTARDEQDALNDCPEEDRTSGGNT
SAAEAMVTISHPYLADSRGNDGTDIYRYIHDEVLTGDPYYASCDRGVATAIRWSGTDDTF
PAGPTAAQYEYVVGTGSGRWEEIGNLATMSENDLLPGDVLLGAPNHVAMYVSNEVVVDML
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GEMTNPTRTTPAG

>aaRXN01557 TRANSLATE of: rxn01557.seq check: 9051 from: 1 to: 816
VRSSNPVFSSLKETQRPQGQNPYGGYDNFGGVYQQNVAPQKAERPMTVDDVITKTGITLA
VIIVFALVTFGVWLVSPGLGMILTLVGAIGGFITVLVSTFGKKYGSAAVTLIYAVFEGLF
VGGISLLLSGFTVGNANAGGLIGQAVLGTIGVFIGMLFVYKTGAIKVTPKFNRILTGMMV
GVLVLVLGNVVWALFTGGASPLRDGGIIAIIFSLFCIGLAAFSFLSDFDAADRLVREGAP
SKMAWGVALGLAVTLVWLYTEILRLLSYFQNR

>aaRXN01574 TRANSLATE of: rxn01574.seq check: 7504 from: 1 to: 1035
MSNKRIGVVIVSYGHEQDVANLVDTFADQLKTGDRVVVVDNRKPWVLKDAVGERLEKHGA
EIINHDNGGFAAGCNVGAAHIVDDVDLLFFLNPDTVIDDPTLFNSLRRVDEQWAAFMPYL
LLPDSTINSAGNALHISGLSWVTGLDEKPVEGSSEVTDISIASGACLAVRVDWWKRLGGM
EELYFMYHEDTDFSARLLLAGGRIGLLHSAYVTHHYDYAKGDYKWIYIERNRHVLLLSVL
PLPLLFVLIPQILGVNLGLWAIAAKEKRVGLKVKSLRLLIRDLPAIFKLRRSTQELAELT
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>aaRXN01589 TRANSLATE of: rxn01589.seq check: 4956 from: 1 to: 1020
MVEQIKDKLGRPIRDLRLSVTDRCNFRCDYCMPKEVFGDDFVFLPKNELLTFDEMARIAK
VYAELGVKKIRITGGEPLMRRDLDVLIAKLNQIDGIEDIGLTTNGLLLKKHGQKLYDAGL
RRINVSLDAIDDTLFQSINNRNIKATTILEQIDYATSIGLNVKVNVVIQKGINDDQIIPM
LEYFKDKHIEIRFIEFMDVGNDNGWDFSKVVTKDEMLTMIEQHFEIDPVEPKYFGEVAKY
YRHKDNGVQFGLITSVSQSFCSTCTRARLSSDGKFYGCLFATVDGFNVKAFIRSGVTDEE
LKEQFKALWQIRDDRYSDERTAQTVANRQRKKINMNYIGG

>aaRXN01590 TRANSLATE of: rxn01590.seq check: 4837 from: 1 to: 6447
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DAEAHGCVHRPQFAKVTRRNILNSPQYTAIKSSYDALVQQDLVAQQQQAQALQQAAYEQE
QAAIFQARDQATFQAEQTLAQESVRQSEGVGLPVIDPMESYFREYAFYEGVEMFGTWGTH
VDAGVSQFSTSDGRAIRALVDEHLATYEPVEQRGSTQAFFASVNAAFAEVAPHAAPMFSA
IAREGEGSKGYQALRHRFDKMVGTAIGPNGLPEGPDLGGRRLPISPYDPRWSDREVVRVH
GTKLLSLSEESVGMIRDLDLATIHLQDNDVYEGTHREDDTKGGVRPLTQWVNGEAIAWRT
ITENDQMRLPNIGQFMTAKEYRAAASWLRAGLIDTADVASQKIDPNKVMSDEGIARSEAI
LTYLSDEGVDFRIEPDREPGQLKVRIEGTRIDIRLTDTRANEQWVGRVYDSGTVIKYSAE
QTAEERLRARERMENGDGTWTPATDYEPSPTEVVDLVKFALGREVERQDGKGLVGVPNAR
HPRALEQAQDAYFTKNRSAFMVREGLSIVQDARDRSAGPGKWFDNEAKASEWLGNNIALT
RARVAEELGVEELIALSAQYADDPDFMPAFAGEDELMAIKQDYWAMLRGEETDLLNPGVN
RDDYMAAIRDGDHEQIAAMTSAMNAVTVEDRVRQHAALVLDDYVGTVEPDPVTGLRFNPV
TVAQHMPSAKSLWSNHDDIIAALRATSITGDELRGDEFYNDVINQQLLKFNPETAQKMVN
NPDLDPQLARFGTVIAETISRNGADVVDIAVDDNGVVRWTAQRRVGAKDSRAVDSKGQVR
GERTRHVQGEIGQIFTRGEHGEIVTKFNGGENYMFAPGYTASVVPQKPGETKSLEERTKL
KGYEQVMSEALVYRVREDLMFTERSRVGATTSINSAYKRLYDNRFPVDFFERSAEEGLSD
EWRAALLETASLRVRYDNSIRDGANVMEDIRAQQRGFDARNDNSRDALVLTGGRNISVLD
VDAGKGFFDPMMTGMAANQGSVRYLLPSAKVGADGMITPGDPADRVPVAAHPESWAMGFD
PHDRQNMTFSNIMQASAVTGGARTAMIQLGGWNFEDGIIVSADFANTHVIRDTEDEMRPL
VAGDKLSDFHGNKGVTALVVDPAMSDADARAAGLESEVAFFRDNPDLEVVMSPFSAISRF
NGGTARELMTNPQDVVFRNNDGSTRVQPGASGDLNFIVTHMAVDAKTNVYDEEAVREGQG
RKASSQLAWVLQAQECHEIMEHFYGNNVSALANFQEYLRVTGLDVTPYGELREGFSESNE
QRNIIEMPSIYDENGELNNRVNRAQVREAFVEQISRAGGVMEIPFQLQLRNGAQLEESPN
NPDMYQLPLLSPHLRSDEDLADGSTSRHEYTTRYMAIFDTCYKLAEEQAKIDALRQEEAQ
HGTLPRAAEKRLSESQKFVDQAQKKVQASFDGIANDIVASRIETKNNVFKDGFMSARQSH
SATAVWTGDPRLSVDEVAMNSSMARELGVLDNGYAMVWRDPVIRDGGVRYLRVVINDDLH
GVAVNPVSVKSFDGDFDGDSVGLVGNLPKKAHEEALSRLTVEANMLDLGDGKRMEDGTMF
YGLTLHDSLDVQVAQHHDPAMAENMKVIVSELNRYQREYEAGEISREELLEVNRAHMDDL

NEHYAQAFANRDGLVTLRFDGMENHMASVAQCFETGAKGSPGKLKEYATYIGADPAQGFK
DVGQPTPEALRSHYEGSQKATAIKVLFTGVAGKKEQEMVALCRNLGLTKEAMAASAPAQQ
SILQAKHDPIDALYRAETLMGPVGDLYQGRKMRRGENEQGRYEWEVVRDENHQPIQATKD
EWVQQYMEMYADDKGMGVSVGVDQVEKIAEEFSDEQGYMRVLSHDELPTEIKPLALDQLA
YGDKKNRFDLLCEMAKQQVNIYDGDAYDFAPRVVRANMKAMEDAARFGIPDVEIQSISAQ
QSLASFERVPQRSGFRIERRVPAEVGTGIAAPAPLPDAGVQGNYVQQQVPATPPVMPVTP
PAQQPVSPAQTDFRGVGQPLDQGGKIGNYGHQGPAMGAQQPVVPQQQNIPPVHNPVPQNS
VPPTPVVPKPGTGNPFTHGGANNQFMGRFDTSRYNQQEPPQRQDGGFEL

>aaRXN01592 TRANSLATE of: rxn01592.seq check: 5848 from: 1 to: 1302
MADNFDRSRDNDRSSDRTPRGDRGDRGGYRNSRGNDDRGNYRQNRDGESRDRGGYLGDRR
DNRSGEYRQRDDRRDDRRDNRSDDRRGGYRSDRNFDDRNSNMRDDRRGGDRSYSRNDRSD
RGYRSNDRYDRNDRRDDNRDTRGGDRGDRRYDRRDDRRDDRRDDRRGGQGQGRPGGDRRH
ANRAGAGRDQQRDSLHPQRAGFREERLNTRLNEPDLPGDIDIKDLDPLVLQDLKVLSKDN
ADAVAKHMIMAATWLADDPQLALRHARAAKDRAGRVSVVRETNGIAAYHAGEWKEALSEL
RAARRMSGGPGLIAVMADCERGLGRPEKAIELAREEDLSSLDQDNLIELAIVVAGARHDL
GQHDSAIVELQKVNPSLKSTGFTHSRLSYAYADALVLAGRGDEAREWFQHAATLDEDGYL
DAEERIEQLDNGNN

>aaRXN01597 TRANSLATE of: rxn01597.seq check: 4048 from: 1 to: 1182
MSLFNRKADLPGLQGATRICTPQGKGLKRLSEGDLAIIDAPDLSRTFAQRLLAAKPAAVL
NVSRFTTGSVPNFGPQMLIDGGIQLVEGFGQELLDGTKDGKKGRLTEDGQLFYGERLISN
GSVLSGPAAENAFADAQQSLLDRMEAYFGNTIQFIHSEAPLLIDGLGIPDTGNAIEGRKV
LIASPGDNHRSRLKELRSFIREYDPVLIGVDGAADTLVELGYKPALIVGNPTGIGADALR
SGANVILPADPDGHAVGLERIQDLGIGAMTFPSSVNSSTDLALLLADFHNPQMIVNVGGP
VTLDGVFENREDSDPAALLTRAKLGTKLVDGSVIASLYTVRSSSNLGWMWALLAILVVLA
VVIVIAGTAGSGSFTDNLIDTWNSFALTVQGWFK

>aaRXN01598 TRANSLATE of: rxn01598.seq check: 5340 from: 1 to: 963
MAKRRGRGAATFAALGFGAAAGIAFGTYVLAPNLPENIDPNAPTSAELVEAETLAEVNAV
QADQADSIIDHIVEDVVAGTLTDRPVLVMRTADAEESDVADVSWLLQQAGAINAGSITLE
ENFFSQDGADQLKSIVANTLPAGAQLSETQLDPGTHAGEALGAALLLNPETGEPLASTAE
RGLLLNVLRDNGYISYEDGTILPGQVIVMITGDSDGSGDGAFAAETQSLFARALDAQGSG
VVVAGRIHTAADTGVIGRLRANPDAAENVSTIDSVNRTWGKMATVLSVREELAGRSGAFG
SAASADAASPSLDGTAAAPAQ

>aaRXN01618 TRANSLATE of: rxn01618.seq check: 189 from: 1 to: 384
MIIIGAVFAILAVLLHVFIFYMESFAWTSEKARGVFGTTEIDAENTKEMAYNQGFYNFFL
AVIAGVGVAFLFAGSTGIGAALALAGTGSMLAAAAVLALSSPDKRGAAFKQGTFPLLAVV
FLVIGLLV

>aaRXN01634 TRANSLATE of: rxn01634.seq check: 2339 from: 1 to: 552
MAVGQETDLLNAMETLAGVPSDLVVTEILPDTTSYDNFEFFEVHNTGSAPVTIGEGEYTF
AYSFDDSADTSRDKALDLGGEVTVDAGETIVVWIEYSSSTVDTAAFSEQDFRDFYGMDSS
ARIFRATGQAGLANGGDRGIRVLYNGEVSGWSHYPSDSAAVQKGIDFALPKVGEQASIAS
AHQN

>aaRXN01635 TRANSLATE of: rxn01635.seq check: 47 from: 1 to: 741
LIPGGLDTPEEPEAPEDSLFEGRTPPRDASTRLILTELMVNSTNMGSSDGFEYVEITNTT
AEPIDFSDYTLNYLYPQDEFTNTNEAVWAAEPGDVIIQPGKSLVFWIKNGPNDEATAADF
NAEYGTNLEAGKDLVEISSGGMANGTARGMQIQTNTGHIVNRGFYNMAGASDVKANEGLH
FAVDESDLLKQTLVGSGAPTPGTVYTSQIPNPLSAVIADSSVPLITDNTATSINPAEPFT
FAFKYHR

>aaRXN01638 TRANSLATE of: rxn01638.seq check: 2292 from: 1 to: 900
MSTQTITITVLETATIFDGPETIYRYDLAAEGILDGWAHSAVLDQVKQIAGENWPTVEIV
VDGTDNVVNALTSMFASKGVTCGGVGVEAPPVAEEPPKIKRPTSGKQVRQFYGIKPLHLL
LVSILVGSIAGIWVISGFTGPVDSRPVDKVAEISTQGETSISNQPQPQPTVLVTEDLLIE
APFGFEMRSDEQSRYLEGPDPNLRIHVGVDPLHGADAALVAEELRRLITEDPSLEEIPAG
EWGEKTTIDYRETPGDGSHVLWVTWFDTDRQLNVGCHSKAAETLVHKAQCRNVIEHLTLK

>aaRXN01647 TRANSLATE of: rxn01647.seq check: 6883 from: 1 to: 1170
MGDVRMIHDPLGRRRRALVFGVVACVMLAVGSLALAIFRPAKDPADAPLIRSESGALFVQ
LDGSVHPVANVASARLIVGEPVDPVNASDAIIAGMPRGVPVGVPDAPGLFSSTEEPEQDW
FVCQDVGTGDLHITVPRGGLGPTLIAEGNGWLGASKSETGEVTWNLITADGRRELPAWGS
EHGRIMRRHLGISEDTPRVYLTTELLNAIPEHDAVRFPAPLPELVDASTRNWLRLDGALA
EITPLQRGLLIDAGSGVFPDPTALLGVHEETANTLTLPEQTVSWQDLDGGFACADGEGQI
GFLETLESGVALSGDSRAKSFSTNAGGAVGVDSGFGYYVVSDFGLMHPVSTGESMVALGI
TDVQVVPWSVLRLLPQGSELAKETALAPTY

>aaRXN01658 TRANSLATE of: rxn01658.seq check: 7999 from: 1 to: 1833
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RHTVYTHGNGFIAAQANQVDEVARDVGSTRGGYPVYTVSDLQSNARAAESEDAEELGIKV
DEPRVYYGPLIASATDGADYAIVGDTGDGPVEYDTDTSSYTYEGAGGVDIGNMVNRAMFA
LRYQEMNMLLSDRVGSESKILFERDPRSRVEKVAPWLTTDSKTYPTVIDGRIKWIVDGYT
TLDSLPYSTRTSLTEATQDAVMPDGTPQPLITDRVGYIRNSVKAVVDAYDGTVELYEFDT
EDPVLKAWRGVFPDTVKDGSEISDELRAHLRYPEDLFKVQRDMLAKYNVDDSGTFFTNDA
FWSVPGDPTAAEGRQELKQPPYYVVAADPETGESSFQLITPFRGLQREYLSAHMSASSDP
VTYGEITVRVLPTDSVTQGPKQAQDAMMSSDQVAQDQTLWRGSNDLHNGNLLTLPVGGGE
ILYVEPIYSQRKDQASAFPKLLRVLVFYKGQVGYAPTIAEALSQVGIDPKEAQDIEEVDG
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DRAVDSYQSAQ

>aaRXN01659 TRANSLATE of: rxn01659.seq check: 8569 from: 1 to: 546
VAGVAQRFVDERIHVGLDSMPEAVTAVWMESDWVLAETIKGSTPSDWEEILRPLALLTDA
SFTLPPRSTRAQTLDLKHLEPSRLKPEQPEKPAFTPNASEEDLSQPLVIRPEEPLQMPVR
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KW

>aaRXN01663 TRANSLATE of: rxn01663.seq check: 7844 from: 1 to: 858
MEISVLIIAALILVAGIVLWRADSSKQAAKKAESPVGSVAPAPVLVEEEPDPEFEPELDP
EPEAQPEPELEVAPRFAPEPVQDLEPDQAEDIYFDDSPELDADVENALAELTEVEDYPEE
PVQSEQPQAPATAEVAADEEQRGVDKHSFLSSLPGSQRRERRNWAAKHHFDFIKEDAFLT
DEWSRGAASTGAVARDVVSGMAEGYETHLVDLAGVPVMAMRRGITSDVVIDARRGEQPAD
PEREESDDLVEIDTVSGFRLLSTWRGLRSVLSTSAFTSVWIPCQKL

>aaRXN01669 TRANSLATE of: rxn01669.seq check: 9448 from: 1 to: 915
LYEIFVPHSHDTADSIDDAMEANSEGIRALKFSLVLMLLTTVLQAIIVSFSGSVALLADT
VHNLSDALTAIPLWIAFILSRRAATQKYTYGFNRAEDLAGLFIVAMIALSAIVAAWQAID
RMINPRPMENIEWVIAAGVIGFLGNEAVAMYRIRVGKRIGSAALVADGVHARTDGFTSLA
VVAGGVGVFLGFPLADPIIGLIISAMIATLLVGTIRSVGRRLMDGIEPELVEKATHAIWH
VKEIESIDRLRLRWVGHRLHGDATVSTSTSSLSEATAIALEAELSVKQHLPNVDEMTVTI
TPSKP

>aaRXN01672 TRANSLATE of: rxn01672.seq check: 2451 from: 1 to: 342
MASREVSITRISPLATFRVALAMSIIGLVAWIICVTVLYFGLNVAGVWQNFNDVIGGVGA
EQTITFGLVLSISALLGAIGAITVAVLAPLCAIIYNSIVDLFGGLQIQLQEEVD

>aaRXN01694 TRANSLATE of: rxn01694.seq check: 8929 from: 1 to: 900
MQKITPNIWCQGTADEAAEFYVNAFSEFPGGAEVLTTVKYPEAGLLDFQEPFAGKTLTVE
LAISGFKIILINAGEEFTPNPSISFMVNFDAVRDENAKEHLDAVWEKLHEGGSTLMPVDT
YPFSEYYGWVQDKYGVSWQLMLSRPEEKPGPAVIPTLLFGGAAQNQAGPAQENYVEVFPN
SQLGDRAPYGQQTGPATPEALMFSQFQLDGQWIFAMDSGVEQDFTFSEGVSLMYEAHGQE
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>aaRXN01696 TRANSLATE of: rxn01696.seq check: 7405 from: 1 to: 1179
LSTPIGLGLPPTPPPVLAPRRKTRQLMVGKVGVGSDHPISVQSMTTTKTHDINGTLQQIA
QLTATGCDIVRVACPKTVDAEALPIIAKKSPIPVIADIHFQPKYIFAAIDAGCAAVRVNP
GNIKEFDGRVKEVAKAAGDAGIPIRIGVNGGSLDKRILDKYHGKATPEALVESAMWEAGL
FEEHGFGDIAISVKHSDPVLMVEAYRQLAEQSDYPLHLGVTEAGPKFMGTIKSSVAFGAL
LSQGIGDTIRVSLSADPVEEIKVGDQILQSLNLRPRKLEIVSCPSCGRAQVDVYSLAEEV
TEALDGMEVPLRVAVMGCVVNGPGEARDADLGVASGNGKGQIFVKGEVIKTVPESQIVET

LIEEAMRIAEEMDPEVLAAASASGMKAEVKVTK

>aaRXN01697 TRANSLATE of: rxn01697.seq check: 2521 from: 1 to: 957
MFQGLKELTAAKGRTLLITVTVGLIAVLVTFLSALTAGLGHQSVSALKYLAGDNELILAD
SGSTTLSASTLSDQAVAQLEDEGAQMLWQVRDRVADTPTMLLNSPDLAPGEVSLPAELAD
SELATAHDVVDSSNDLYLDHLPVVLMNTSDLASLAQVRGVTGPAGAFASDVALPSDTVAL
SGSERWNASASYQGEQMSLNLMIVMLYVISALVLGAFFTVWTIQRLRGIAISSALGAARR
VLIADALGQAIIVLGIGITAGTLITVISAEGMGDAMPVVISSSTTLFPALILAAAGLIGA
AISLGPILRVEPRSALMNA

>aaRXN01701 TRANSLATE of: rxn01701.seq check: 3619 from: 1 to: 372
MLSHEEIVAIAEDLLSKRYGGVQTLSDVEQLNGSGTSAVLRARVANSPFLQQRSVVLKYV
PSTGDVFDDSALVREIVSYQFTTSLSEDVRPGPVILAYDIDKRILVISDSGNGDTFADLI
DQRP

>aaRXN01703 TRANSLATE of: rxn01703.seq check: 3504 from: 1 to: 1113
VAWPSNAKEKLFIHWHYWWQAHYLDCLVDAARRRTTKARRDRIRDTIRGISVRNVGKLTS
NRYYDDKAWLALALGRAGKVRKVRTPKSLPSLEQNIVDGIDSLTGVLPWRSGETFYNVPS
NGPAAIMMARTDRLDEAMKITDWIFDNLIDGDGLVMDGLRMRMHGPELVRSIHPYCQGVA
IGACLEIALKLRERAGLTTTVVDHWSDADKAEDSLKYFAHIHAVVQAVSRKMTNFHGVID
WDTGDGDGGLFKGILVRYLADVAIRLPDDSPTNRETKKIAARLVLESAESVWNHRLEVDG
LPVFATDWTTDARLPQNFGLSSSSLSDLVSVVRVDERDLSVQLSGWMLMEAAAKVAEELE
NNGNSYTGRSR

>aaRXN01709 TRANSLATE of: rxn01709.seq check: 6991 from: 1 to: 432
VFEQALGLTTLAQTAGAGAAGGLGFMAMALLSAGMRSGVDMILNETGGEKMLAQADLVIT
GEGRIDAQTLSGKAPTGIAKRARAKGIPVLAVCGQSLLGPAISNELFEDIYSFTDFESDI
NECIRNPLPILEGIGFNIAKHHLS

>aaRXN01711 TRANSLATE of: rxn01711.seq check: 1589 from: 1 to: 1158
MLLMAHRFFVLAINGAVTDDFTTVYSALRRFVEGIPVYNEVYHFVDPHYLYNPGATLLLA
PLGYITHFTLARWMFIAVNLLAIVLAFGLLTRLSGWALRSMVWPIAIALAMLTETVQNTL
IFSNINGILLLMLAIFLWCVVHKKSWLGGLVIGLAILIKPMFLPLLFLPLVKKQWGSLIL
GILTPVIFNAVAWFLVPGASEYVTRTMPYLGETRDFANSSLPGLAIYFGMPTWMEITWFL
IFGAMVGLAVLALLRFRNTEPYFWAATTTGVLLTGVFFLSSLGQMYYSMMIFPMIFTLLG
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GDIRAKGTPSSPITTDPTHDHLERTA

>aaRXN01721 TRANSLATE of: rxn01721.seq check: 7358 from: 1 to: 1023
VLVDRFGRIARDLRVSLTDRCNLRCTYCMPAEGLEWLPTEQTLNDAEVLRLIRIAVVKLG
IRQIRFTGGEPLLRKNLEDIIAGTAALRTDEGEKVHIALTTNGLGLDKRIAGLKEAGLDR
VNISLDTIDAERYVSLTKRDRLSGVLASIDAAVAAGLHPVKINAVVMPGVNEVDIVPLAE
YCISKGSQLRFIEQMPLGPREQWKRGDMVTAEEILARLEEKFTLSPAKEPRGAAPAALWN
VVDKSNPDITGQIGIIASVTHPFCGDCDRSRLTTDGTIRNCLFSRTETPLRDALRDGASD
DELAQLWAGAMWEKKPGHGIDDEGFLQPDRPMSAIGASPYQ

>aaRXN01734 TRANSLATE of: rxn01734.seq check: 3461 from: 1 to: 534
MTDPIEQAFERIRAEAMRRNGSVPDLNKNDAFRRPPAPKGGVEKRKKGRASGLDGRQKRY
VRGAESLGSVLNKEIQRRGWGKDIAGGWVTSNWEELVGAKIAQHTRVEMIKDKKLFITCD
STAWATNLRMMQRQILQVIAEKVGPNIITELRIFGPQAPSWRKGPLHVKGRGPRDTYG

>aaRXN01742 TRANSLATE of: rxn01742.seq check: 7621 from: 1 to: 504
MQEKPEMPAIEVIRSAKRTKTVQARIVDGQIQVRIPARMSKAEEEKAVGEIVAKLKRRTQ
SAVSSDADLIERAHKLNKTVLEGRARVESIRWVSNQKGRWGSCTVATAEIRISDRLKHVP
DYVLDAVLVHELTHTFIAGHSAEFWEWADKTPLAERAKGYLEAYQRWG

>aaRXN01754 TRANSLATE of: rxn01754.seq check: 1605 from: 1 to: 1941
VKIKSVFLSTALSASLLLGITPPVLGATINPSLPLSALSSSDDIAVPNFAKELPLAFDVP
AGTVPQSLSGTLQIPAEFSGGVVEFYDGDRLFHTLRLEVNDSRAHIEVPLQSVPVEDGRA
TFWLRAMLDPVNNQWCYEEQEVRFLDGNVTFEGATINPAVVADYFPSVLRALTIYVPENP
SEAVQEATLEVATSLDSVYRRSGLDVNVETLPTGTDAPPTRPQDFERQIVLVDEATESNT

QKTELVNPGQDNAFLRLNGNADELYDQARLLTDATLPLAVDTEVTASGFGDVPNLSTDVA
TLQELGITQLTSESVARTSVTLGIERSRLRTYSQSMDLHITGTYTPLPPQNAGQITFSIG
DTVLDSLTTDDTGIIDREFNVPGDLVNRYTAIVVEFTSTGDVNCGVTQPVGLNIDSDSLV
TSQHSDVPVLNGFRSLPQSFQPRVDVAFADPSVQELSRAVSVVLGIQSMSSQRIRPHLVN
WDEAVASERPTIFIDAAGAKTDQVPSYLAQQGQTLEITSKNDQNADGEQLTRSLQTNAAL
VVGSIQAVWDADKKRTVIVASSQDNPPDLDALISWMGEDRERWSDLNGDLIVKVRDREPV
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>aaRXN01761 TRANSLATE of: rxn01761.seq check: 9482 from: 1 to: 4464
VTATVLEPQPVQLSEQDVDAEIARMELKHNRHKTWRRRTMAVVMTLLISVGLSFGAFGNK
EREANAFASAIIAQVVGAMGEVAFEAICPSDGDTEMLLKCITENLGEMHIIEKCLEAEDV
LKCFYDAKNEEQRKEQNLDKAPDYSMYRMASAMASFYGNGRAATAGVEEGGPNEFLDSED
AGLKVWEGILSKAANGGNVLGYADAKHNEDSGWFFGNGVANNEKTYSYDSLADHAFQGPY
HFALFGATLSGLGFDSSKAEDSQTDFAQRKGMGYAMMIAYIISGGIDLVFNTVLNILSTI
NPFRLLVGPVSQNTNKTFTENMAGGQTTEGTPFEGMTDFFGLIYNWSVTVGWLIGIPVSI
GLFMMGALMFRRMDKGSAFKKVVIRVVYGVVGLPLLGVSYTGALDSFLDSGSSTSAGSNA
TKIVLSTYVDFQSWAENTRMRVPDKVTLAWSLEDQAPTGQSMRMVRNSALEINAQSNESF
TTFKNPGSMDLGYSMDWMEKMADPANSGTDGTSSSSATTIFQGTIALLSRYIDNDSISSG
SFETSIRSAMESLTSKEGSGEAVAGGDVMAWVTGYNTASGLNEITAAELADANNPLLEVS
DSAGLQGRPIDRNAVSFKSGDATASCNNSVVTGSRAVVGDYRSDCNMSPLTMYNFLNTSF
HPADASVFSTSTSASSYTRASHSAVSLIGSGAMNFVYWFSAMSLMGSFIVIGIGYAGAML
FNTIRRTLSLIGAVPFAAMGFIAGVAKVIVYTIAMLVEVIGTIILYQLITRFLMAVPALF
EQPLADSLSSNESAELVAGAGMGLVGMALATSGNWAIAGMVITVASSMGVIIFTIIAMKV
RGSLVSGVDETVTSVINRFLDTQVSSAGATSGDGMMRRAAATGLGIGATHMVLNRDGDGG
GSDSGSGGSGGGSDSGLGEKAAGLAKVVTTVAGAGLVGKYATDALDNYADGVINGDGDGA
FAAGGDATVDGDYVADGDAIASADANADFVDGVVDGAGRASFSNAAYSSDGTTLDGEGAS
VDAQGNPLHADGTPMSAAEAEMKMAGLSSSGTMMEKSGVKSSGITTAADVMDDQSLASSV
TESGLSKIPDTYGADVSGAAGTVGTTGADYSATDSSAGLNMSEAALQSGTPMGALAGGSV
SSSDQAMNDAALQIAASQGLAPAGSIAGMEQLSAQATEAPAGKAGKQLGDLSGSALNTQL
ASMGQQVGDSVNSAYAAGGMGGVDVAGKVTEAAQHLSQVPGQIQNAVTNADAGSSGASFG
QMAQGAAGIAGVAGVIGAAGAASSAAQGAGTVQGAMGNAAAGAGMINNAVSGGATGSTGA
AHVVNASHGPVAPGQAHYQESGHAQAFVQNNQANTAHTANTRAPSSAQIMGANVAGSLAS
QAVRGIGQPGQMGANVRDAMGGSGRSGGRGGATQGGRGAQRSGVSAKNGIRAQRGQKPSV
TGQAMNAAMRSAAVSGRMANMDGNSVGGTEADPQQGSGVTEKGDKGVK

>aaRXN01765 TRANSLATE of: rxn01765.seq check: 8067 from: 1 to: 942
MSNNVVKYECAVDADNIVAVDMHVHLEVDSCGHKSMPADIMAASSKYFKTAERTPSADAI
ADIYREHKMAAVVFTIDARTQMGHLPNSIDDLVASCARNNDVLIPFGSVDPRTGEDALVE
ARRQVEELGVRGFKFHPSVQGFDPSAPEFYPLWELLESFGLPCVFHTGQNGMGAGLPGGR
GIKLRFSNPMLLDDVAADFPNLTIIMAHPSVPWQDEANSIATHKANVFIDLSGWSPKYFP
ESLVRQSNNVLSKKVLFGTDFPLITPEKWLAAFANLPLKDEVRPGILKDNAVKVLGLAAS
TERGSQAEKVVQHA

>aaRXN01767 TRANSLATE of: rxn01767.seq check: 5940 from: 1 to: 465
MIDHKLWFNTVTNNASVREAAGKCDIPIRTLNEQLNRRILPEKTVIALARAYDLSPVDAL
VRTGHLTEEEAGSREEDASPDSADDYPTWALNSHLDYGILGAFGDIAEEVNSERVNRDNA
IEQIRAWLDELPGSLFNNLRSTKTGYIELFETYLD

>aaRXN01769 TRANSLATE of: rxn01769.seq check: 4062 from: 1 to: 441
VTGLLGRAPHSLFFPIGFYYTPMTSITTTDTPLYTALPHTRISDAELLTPTTTVHEILVY
GPAECPGCTATLDFFARKNMPATKVTVAAGDVAHTYITQDLGYLQAPIVTVRISSSASNH
DNEHNTQILHWSGVNRYLMQALSRTHF

>aaRXN01771 TRANSLATE of: rxn01771.seq check: 4536 from: 1 to: 702
MHQAGQLINDPSQGLWRTSALRSPVARVGHAVLRQRAGEISRMQGREFSRPGDQFRQVDL
RRRLIQVHPQSIPTADAMAVTITMALTAATIDPVKFVADSQNPDEEIYLAAQIALREMVI
AMPLEDFIGVRIDLEPVLVAAQAAAKNVGVEVSSILLKDLNLPQEYSGALQESIVAKIQA
ETDLERARNEVKTTRARLASAKVLEQNPILAKIRMIEALPPGSTIEVREGDSKA

>aaRXN01774 TRANSLATE of: rxn01774.seq check: 7116 from: 1 to: 726
MSPNFQARGTTAPTVALSMRQIAHIREEIKKSPLAASVFITPTTKQMVVRDLESLFQQLY

HTDLPEPSIKDSGLISAIGSSAGNTNNPALALETQMAYHLVLAMHHTDVATWHKVVTKNI
TESAAAQDAAVEHSAKYDAVYDAAQLMGITVEEGNVGSIAIAFSTARADGKSDWCVSGIS
RYIEVTEALDAARAVTKNTDALNKTALPDVQPAPVVHSAQFMNKSAHDHGVNTAEKDQPT
LF

>aaRXN01787 TRANSLATE of: rxn01787.seq check: 474 from: 1 to: 693
MSNNALLVANEADIGLYLHWNGGRDSIEAFLAYAAYAQLPPINENNDWLPPFITVLKNFF
GNDGSGVYLEPVNQDYLDGIDYDNGVYMLDDYEITERINPPAVEQDSHDLHDMLIKIDKA
QPPVDQLGSFLHGLETSVADLGVGDRVFLPRFSTFDKKLGRYRIHTVLGFAENDPFNPMT
SSERFKGKPYVDMFDNQDNAFNPNSYITTDTVRIVVDPVPETNPDDEKAGR

>aaRXN01796 TRANSLATE of: rxn01796.seq check: 303 from: 1 to: 774
LLLGGNPAEIDQVLGGDQTQIESGESTGAGDFDHCQTGADANASDDCRLYYTSFSVNEMW
QTLLPAQAGIEYTEPTLTLFKNSTQTGCGFASASTGPFYCPSDQDAYFDLTFFDQMRQFG
AENAPLAQMYIVAHEYGHHVQNLEGTLGLSNYNDPGADSNAVKIELQADCYAGIWANHSS
EGPDPLLQPITESELDSALLAASAVGDDNIQQRSGGDVNPESWTHGSSQQRKDAFLAGYN
TGQMSACDFLGRGVYNDA

>aaRXN01803 TRANSLATE of: rxn01803.seq check: 8304 from: 1 to: 960
MRKKKDGQNLPDFRKNPPKLDKKAYEKELKRLQAELVDLQQWVVETGARVVIVMEGRDAA
GKGSAIKRITQYLNPRSARIEALPTPNSREKGQWYFQRYIEKLPTAGEIVIFDRSWYNRA
GVERVMGFCTSQEYRRFLHQAPIFERLLVEDGIHLRKYWFSVSDEEQIERFEDRLSDPLR
RWKLSPMDLQSITRWEDYSRAKDEMFIHTDIPSAPWYTVESEDKKRSRINVISHLLSTIP
YEKIDRPLPEIPHRPDSESDYVRPPRDEFRYVPDVAAHLEEERIKKEEKAKKAKKPAKAA
GKNSDKQKSSGGKGKKKSKK

>aaRXN01809 TRANSLATE of: rxn01809.seq check: 4529 from: 1 to: 1176
MNEQEREALEDAALEEAALADELAALEAEAGVQGSVEPYDYAADLDDEDEFDEDPFAQDE
PRDAGPLGELSSDNHVSEAVAEDTGTSTEESAQEGSHEESVDNPRDFTGTATAVRSFRPR
LPVPNALRPGPPIRTQPAVNTDIDDGGQENTAGATAADVGAGVFFGTHFELAFGQVDVHR
HIRHEQAMRDGHQDLSVFVGADGAIMLEELKNRYQRPPENEPHDDDVTEMIKTTEETEKE
NVEMDQDIAVVDNVDEQVVVTPAHDADSVAVVAEQVVASEPTPEPVPKVEHVEMSVDLAG
ETITPIDQAIRSFMQLNGIEHSVVLRRLGLMTQVAHNKELDEVYAKALAEGESHAQQQHE
LEAENERLKKEVDALAAELSAALMGEGGGDHD

>aaRXN01811 TRANSLATE of: rxn01811.seq check: 3834 from: 1 to: 681
VFEFDDTLAKDIQVDRTSMQVFEASETVKEAIKASIEQGHTRYPVILESKDNVLGYVTLP
DLIKQSYKDDQLTVEQLIEEPIVTTETIPIKKLLTIMRKKGKHIAILKDEYGGTSGLVTI
EDILEEIVGEIRDETDLDEALIAEQSDGSYIISGKLTLDDFQRYFHVEIPEFEETNFTTL
AGFASSRYKEIKAGTIIEIASFRFTVLEYQHAHIDYFKVESTERKTE

>aaRXN01813 TRANSLATE of: rxn01813.seq check: 1579 from: 1 to: 666
MVAIVVVAIVVVGFIVIQGQGSKAAKLGDRDYEDTSLAMEVGSDSITLTSANTSADAKSV
QLFEDFSCSHCSELSLATDADMKTQIEDGNLVVEIKPLNFLDRENIDGHSTHALAAALAV
ADSNDATLYWNFRAFLMEDQSEIYNQWSDDDFADGVEALGADSSVVDAIRNGDNIQRAYD
LATANGEELTEETGSLSSPRVLQDGKDVEGNISDWITTVLAS

>aaRXN01815 TRANSLATE of: rxn01815.seq check: 2232 from: 1 to: 792
MNRSTISPVEARQQFRAGLIQPTSGWSAGFAQANLISMPQDLAYDFLLFAQRNPKPCPIL
EVLNAGETFGGIFGSNATEADIRTDAPQYRIYAHGELIDSPASAVDYWRDDLVSFIIGCS
FTFEHPMVQAGVPVRHLEAGRNVPMYETSLACRPAGSLSGNLVVSLRMIPASQVADAVRI
TSRYPAVHGAPVHIGDPSLIGIDDINNPDFGDAPLSEPSDVPVFWACGVTPQAMVMSSKP
PLAITHAPGHMLITDAPDLGFQVP

>aaRXN01825 TRANSLATE of: rxn01825.seq check: 7373 from: 1 to: 270
MPKARVTKNETAPVSSNPSANRTPVKINSAGTPMWYKVIMFAFMIVGLAWLIINYLVGPQ
IPFMADLGAWNYGIGFGLMIIGLLMTMGWR

>aaRXN01831 TRANSLATE of: rxn01831.seq check: 8077 from: 1 to: 462
MDSLVLLGLRIALLVVLWFFVLMALRAMRADLKVTGQASTSSSSVAAPQGLARAFNRSSP
PRLLTVVEGPLAGSSIEVSEDMTMGRSPECTFVVGDDYASGMHARVFKRGSEWFVEDLDS

RNGTFVGGTRIDQPEQIAVGTDIRIGRTAVRLVP

>aaRXN01834 TRANSLATE of: rxn01834.seq check: 6044 from: 1 to: 702
MLGGGGAILAIPLLIYGFSFSATQATAASLIIIGLGALIGLISQYAAGHVRLKEGLSFGL
LGLVGSFVGSHLASNIPDSLLLSGFAILTLVVALTMISKLRSTREYITRRPSILAIALSA
TGVGFLTGFFGVGGGFAIVPALIFALGFSMRQASATSLVVIAVNSAIAMGFRYSDLASID
WSVISPIIITTVLGAFSGVKLAKKVKASSLQLGFAGFLIFISIYMGFQNFPDLF

>aaRXN01846 TRANSLATE of: rxn01846.seq check: 4543 from: 1 to: 282
MSIPGNVSYVAQGGTGWDGADQYTTGESWDLQSFLENSTDYLMIIGGSLLALVGGAAVIW
GFVNVMRKLFGGQSGQQIQWFTTILLIIVGGALP

>aaRXN01847 TRANSLATE of: rxn01847.seq check: 7155 from: 1 to: 735
MLIVLPPSETKTHGGSGKPLDFHHLSFPSLTKARQTILADLQALEVDEALKVLGISEKLR
PEAESNRALETSPTMPAIFRYSGVLYDALDAATLPEKALERLAIGSALFGVIHATDPIPH
YRLSGGTKLPTKSGELPTMKARWGTSISEALIDVNQLVIDLRSGTYQQLGRVKDAVTVRV
ESVMEDGSRKVVSHFNKHYKGELARVLALSEKEAHTAEDVMSIAQAAGLVVEENPNHKET
LTLVV

>aaRXN01874 TRANSLATE of: rxn01874.seq check: 6539 from: 1 to: 348
VIAYVASACCLPFGAFAGALLSKELSGHLQERVLLTHTVINFLGFVGFAALGSLSVLFAA
IWRTKIRHNFTPWSVGIMAVSLPIIVTGILLNNGYVAATGLAAYVAAWLLAMVGWG

>aaRXN01875 TRANSLATE of: rxn01875.seq check: 5040 from: 1 to: 846
MRIAVTGATGSLGGHVVDSLLNKGVAASDIVAIVRNEEKAADLKARGIALGVATFEDEAA
LTAALEGVDRLVFISGSEVGQRVAQHTNVINAAKAAGVTFIAYTSLLNLGTSKLALAPEH
IATEKLLAESGIDHALLRNGWYWENYESSIGAAKATGKVFGAAEGARVSAAARKDYAEAA
AVVITSDNQAGKVYELAGAPALTYPEIAAGIGEVIGSEAEYVNLSVEEYQNALEQAGVPA
EFAALLAGMDPIIAEGALYSDSTDLQDLIGRPSTSIVEALSS

>aaRXN01877 TRANSLATE of: rxn01877.seq check: 5596 from: 1 to: 1071
VPLRLATGGVLATLLIGGVTAAATKKDIIVDVNGEQMSLVTMSGTVEGVLAQAGVELGDQ
DIVSPSLDSSISDEDTVTVRTAKQVALVVEGQIQNVTTTAVSVEDLLQEVGGITGADAVD
ADLSETIPESGLKVSVTKPKIISINDGGKVTYVSLAAQNVQEALELRDIELGAQDRINVP
LDQQLKNNAAIQIDRVDNTEITETVSFDAEPTYVDDPEAPAGDETVVEEGAPGTKEVTRT
VTTVNGQEESSTVINEVEITAAKPATISRGTKTVAANSVWDQLAQCESGGNWAINTGNGF
SGGLQFHPQTWLAYGGGAFSGDASGASREQQISIAEKVQAAQGWGAWPACTASLGIR

>aaRXN01879 TRANSLATE of: rxn01879.seq check: 6847 from: 1 to: 933
VKITAKAWAKTNLHLGVGPAHDDGFHELMTVFQTIDLFDTVTLTTLDEELVEEGSVVKQL
SVTGARGVPEDASNLAWRAVDALVKRRAEKTPLSAVSLHISKGIPVAGGMAGGSADAAAT
LRAVDAWIGPFGEDTLLEVAAELGSDVPFCLLGGTMRGTGRGEQLVDMLTRGKLHWVVAA
MAHGLSTPEVFKKHDELNPESHMDISDLSAALLTGNTAEVGQWLHNDLTSAALSLRPELR
SVLQEGIRSGAHAGIVSGSGPTTVFLCESEHKAQDVKEALIDAGQVYAAYTATGPAASTA
DQRGAHILTVS

>aaRXN01896 TRANSLATE of: rxn01896.seq check: 5243 from: 1 to: 636
MTHAILFDLDGTLVDHASAARAALHAWSPTVGVDTDVERWIELDKWGFARFERGETTHLG
QRRDRIRAYLNRELDDATCDDIYSGYLKAYEQNWTAYPDAKGVLDRAVATGAPVGILTNG
AAPMQQDKLDRTGLGLPELVMLAASTLDSAKPRPEMYARALTHLGARTATIIGDDWTNDV
AAPRELGWNALYLDRSGTDPRADIHSLDELFH

>aaRXN01899 TRANSLATE of: rxn01899.seq check: 7424 from: 1 to: 786
MSRTLWAVSDLHVTFAQNQNTVDALMPQDPGDWLIVAGDVAEKIPDVVRTLSALVKRFDT
VIWVPGNHELFNRKTDRVNGKARYRALVGQLRAIGVITPEDPYPIFGGVTICPLFTLYDY
SFRPLGLTAKQALAQAKIKLDDELAIAPYVDIPAWCAERVTYTEDRLKATKGPKVLVNHW
PLVIEPTHRLFQKDIALWCGTTATRDWAVRFNALMAIHGHLHIPAETRVDGVSHVEVSLG
YPFEKHPPHMKRPWPFPVMQIN

>aaRXN01902 TRANSLATE of: rxn01902.seq check: 3503 from: 1 to: 1059
VQKKSRTGQTTWNGGPPIENPGTSFILSAGDQANHSSWDEHSAYISPETLRNYRLAVNNG

NHDQYNYDAYNAMYPRPNQVDENYFFEYNNALFLSLDSNDYLDIDDDIAFLRDTVAAHGD
DKDWIVLTYHHSTFSQAYHMDDARIKYQRERLTPVISELNVDLVLGGHDHIYTRSHLMNG
FTPVDAGREAVVGETLNPKAGEVVYLATNSSSGSKFYDFYDFQLGQRYDTGLDFQETVDQ
KKIRTYTAVWNQDQVQDYTNVELTPEGLTVTTKDAVSGELVDQFTLSKQDRDEESEVPVE
DDKDGDNATGSSNLGLAAILAPVLAIFGFVGGLFVGGGSLAEFFANLGVKMPF

>aaRXN01908 TRANSLATE of: rxn01908.seq check: 3792 from: 1 to: 846
MHSDRFEHPDNGYGYTIRQDTDAENPMTHHDTKDAALWVHNRPRRGDTVADKPEGNEILD
IFAKFICGQHDNDDNPFEVWSDGDSDASLIRTKAYVAEHHPELIFDISAKTITGYSQGDW
LDVVCVTTAATCDELIPADSLIDIYRQWAFGDVWTVIPDSQPGLAGIYADDPADALAYYQ
ENFEDEPIWDLLSRHDADKDAAALAAASAAENHALARGTTPVVIRTQDIITNARYLMSDS
ADDNPEYDRALVELSAYLLSIDLDDRVAAEMTILGRPVPKEG

>aaRXN01909 TRANSLATE of: rxn01909.seq check: 5615 from: 1 to: 879
MANFRSKDKDGNVINPNASTKGVDLVVNVYDSAKHVTEKGNTVHFVDVQVAQIPIDADGT
RANANLAPQTMPHLHLDTKDGQRNTGVAYSDAQIQAMQTVAAQGRNHMTPLLSKDGETVG
YSMLVKADVMFPKTKDGKSLPAVMNTKSLQPSGVPISDAMNIQQQQFMAVAMNRQAAEAQ
KAAQAQATQAQAPQVAPQPVMQNQQFQAPVPQGQQPAYAGAPVYADAVAHATAQQQAAAA
QAPQAPAGNPFNQPPAVAAALAPQTQPPAVAAALAPQTQQPAAQPQMDNEPPF

>aaRXN01910 TRANSLATE of: rxn01910.seq check: 445 from: 1 to: 846
MAFPLLAVAGTVAPVAAGWAKDKFLSNSQNNQQAQNQQMSFGQVNNSAQNSGSENSGFMG
QYGNLGAGLAGAATGAGLAYSDFEDGQSLSSKARNMVGKGLAGAGAGVFTKLANDAIQAE
GGSMKASAYSAIAGGLGSYLKDGGPGVIKSAMASGAAGFGADKVHDKLAESGHEGLADSL
SGAIQGGGLGYSTLGGVTGAGIGGATGGLAGLAQNYFGGGDDYSNAGASASGFSANQVNS
EISTEIPQFANLGQPQRSELEQLALPQESRSVDKSYDQGYEA

>aaRXN01911 TRANSLATE of: rxn01911.seq check: 9256 from: 1 to: 939
VFIIGAGLPLLYVPIFVTVIVMVVYALLRYEQRMSGTVYEEADPVEMDSVIWEGIKCDIA
SDIAARAEAKKAKKPVASDAVAVGNYIASLRQHMLVETQRRYHHKLGRELHNDPAQLEDY
GSGLRDCECRACVVAQKLGVTVHAHGVVQASARKKDRVIIGRADGIDVAGWWNHRQEARR
KTSAAKQLERDAQRKRTQAERDKEIERKRKAQEFVAEQSGKAAAAQRRAEKKAAKQARVD
ELVAQKQAAQEQKTHCKRDKQRAKKAQGRKVGAVDNSAVDDVLAYAEKTRSIAGCRDDDS
VVHVDMAAGVRDV

>aaRXN01930 TRANSLATE of: rxn01930.seq check: 8516 from: 1 to: 951
VISTNEIENIHSTRRDIEIALDESSTSEPKRFSEISHLYLALAEGKISFPESPSELRELY
DHLMHGELGKENELDGEIFRQGPVEIRDSRQKVIHSGFSPESQIIEGINAIIKLAHSEEE
SNLVGIMMSHFMFESIHPFYDGNGRTGRYLLGIQLSKILSPATALTMSSAINQFRNKYYK
AFHAVEHRLNRGDGTPFVISMLELLIAAQEGLIENIKQRIDFLASLEDAIKTLRGTNSFK
NHQINLLYILGQIQLFGKDETLSLESAAKFLKVSKATATRYFRTLREMELVHEVSKRPLR
FALTDKGREIVGLEVKI

>aaRXN01944 TRANSLATE of: rxn01944.seq check: 9781 from: 1 to: 972
VRTATLHVTSSAGEAATTINLTEDDGSFNWALPAADLTGKSWFEYTVTATDGFNSVTTEP
VRVTVDGANTDPLRLNLEENQWVSGTTDVIGASDVFGDKLELLIDDAPAVTNSSLSAAPT
FAMEVTQTDVFFRNGILAGGEELRIFDQGTYANTETISTPVPLYHINEDGTLTVSVYAGT
KAAPEIDLNENNDDFQIRNLRLILPDGRTLTPAGISDSNAWLNMGDSAGKLDFFDATFAL
PEDAFTGVAHAWDTTQSTDGEHHITISREDGGEISRTIRVDNTAPELTVSGVEEGQELRG
TVEIDAQATDAGAGVKSVETLLDG

>aaRXN01945 TRANSLATE of: rxn01945.seq check: 3307 from: 1 to: 1992
VQLPLTTGSIALDKGEHTLVIRAEDEVGNRTEKTITFSTPDENPISGDYAPSNGATVGVG
DVKLSARASDPSGDTVKMTFLEADSPKLDSGRVRMSSGTVEDAGSVSRAEAKMLERGDVE
KLSSLDGLGMEVTSDAALPYQLFEVDAADALAADTEVRLNWAGSADGRAQVIMYVFDGEA
WVEVDRHLTGDELEEFTLQGVVNAEKFAIGGTVTVLIQHSEGFAGADHSTRNSDVTAAHP
DDVARSEYDFTLAWESDTQYYNEEFHEHQTNIHDYVLAERENKNIQFMFHTGDVVDDWDQ
PAQWATANPEYQRLDDAGLPYSVLAGNHDVGHTSNDYTEFSRHFGEQRYVDNPWYGESYQ
DNRGHYDLFSAGGIDFINVAMGWGPDDEEIAWMNEVLAKHPERVAILNLHEFMLTTGGLG
PIPQRILDEVAATNPNVSMIMSGHYHDAFQRTDSFDDDGDGVDDRTVTSMLFDYQGLPEG
GQGYLRLLHFDNQGQKMMVRTYSPSLKDYNSDEPSLLGPAEDPNMYQEFEVSYEQLGIKP

EGRTLIGDSFSADFLTSNEIGIVDEVPSGTIAFTNWKDVTEGRHSWYVRSEDPFGGVEIS
PVQSFIAGEEAGGNAPGTGSSNGGSSHGLWGALAEFFAGAAALAGAAIAFVPGIWDYVTN
AFKR

>aaRXN01960 TRANSLATE of: rxn01960.seq check: 2689 from: 1 to: 318
MPQHFSQENYRKAPVIMSAPLTIHDLLSTNSKLNLKWLTCTVLNSPNLTEPCITVSVNHT
EGMSLVSFEGGHGLTEIANTQLVPVLELPKFNPFEALAIHLEAANN

>aaRXN01985 TRANSLATE of: rxn01985.seq check: 6664 from: 1 to: 1050
MRTSRVLAGILAATLTVSLAACSQDSSETSSNSSSAASQSSDVSNEAFPVTIEHAFGETT
IESKPERIATVGWSNHEVPLALGVTPVGFEKVTWGDDDNNGILPWVEETLSKLGSDEPVL
FDATDSIPFEEIANTAPDVILASYSGITQEDYDQLSQIAPVVAYPEIAWGTSLDEMIEMN
SKAIGLEQEGKDLIADLDAEVASAIDANPELKDAKPVFAFFDESDFSQIGVYTSIDPRMS
FLLDAGVQEASVLKEHSSPDSFYEQVSAENPETFDDVDVIITYGTEDDAANAELLSKMQA
DPLLSRIPAIAEGKVVFLGANPLAASANESPLSIPWGINDYFAKLAEPLK

>aaRXN01987 TRANSLATE of: rxn01987.seq check: 9043 from: 1 to: 213
MTFPAQSRRLARSTTDKWIGGVAGGLAETYGWNPAYVRLAFVASVLFPLPGSQILFYALA
WLIIPSRENRF

>aaRXN01988 TRANSLATE of: rxn01988.seq check: 4185 from: 1 to: 426
MNMKTHPASAKQTTELRLLTATVYFKALNEVHNVMQMIDPLTPVVPITTGTSVAELYADA
REHLDNGATQVMIPVISPSNLTLSVVALGNEEVDALGHSEGQAVHSLLEIHTPKRSWPLS
ELYIDDNEGLAQVSRCFARLVG

>aaRXN01991 TRANSLATE of: rxn01991.seq check: 5467 from: 1 to: 873
MTNLLPHFPSTDVAAWEPTVVYSADKTTATATFKNIPSDISFSWTGIEALEPFSPGKTFE
HKVQGSVGEPAGAFTRDNYFTEGELYKHRHADDLLSGDGLFGPNITDGDGNLPSVDDGKD
GDDGSDGSDGRDGVVAIDVVDNADGTVTVTLSDGTTFTLDAGQDGKDGLDGLDGTGLTLE
SATPDEDGNITYVLSDGTEFTVRNGVDGSDGKDGKDGVNGTDGVDGSDGKGLVEVSRVTN
DNGSVTITYEDGSQITTKPTPTNWLSKLLDLLLPLFNLFGLGGGSVISSSK

>aaRXN01996 TRANSLATE of: rxn01996.seq check: 8265 from: 1 to: 537
MSKLTGTWTLDPAHTEIKFVARHAMVTKVRGEFTEYTDSIVVDAENPENSSAKVVIKTAS
VTTGNADRDAHVKGDDFFAVDKFPEMTFEATSFVIKNENEGTVTGDLTIRDTTKSVTLDV
EVGGVAEDPFGNTRLGFEASTEINRKDFGVDFQAPLSTGGVLVSEKIKIEIDGSAIKAA

>aaRXN02007 TRANSLATE of: rxn02007.seq check: 3631 from: 1 to: 633
MSSDAEKASVELSEKFHPERTHILGAVVFGLISLLVIGAAPQYLFWLLALPVIFGYWVLK
SSTIVDEQGITANYAFKGKKVVAWEDLAGIGFKGARTFARTTSDAEVTLPGVTFNSLPRL
EAASHGRIPDAITASKEAADGKVVVVQEDGYSVMMSKEEYLERQKALGKPVQLNFDDDTD
GNTTQTESVESQETGQAASETSHRDNPASQH

>aaRXN02014 TRANSLATE of: rxn02014.seq check: 217 from: 1 to: 507
MENIAEQAGVGVATLYRNFPDRFTLDMACAQYLFNVVISLQLQAISTFPTDPEGVWTSFN
QLLFDRGLGSLVPALAPESLDDLPDEVSALRRTTEKNTTTLINLAKQHGLVHHDIAPGTY
IVGLITISRPPITALATISENSHKALLGLYLSGLKHGMMANIGEHDGKS

>aaRXN02019 TRANSLATE of: rxn02019.seq check: 8826 from: 1 to: 501
EIPAGTKVEASDLGLQAIPTSLLPSTSYDSIDDVVGLVAASTLSSGEIATKPRFVGTELI
NSIATNVTDSSLVEEINMVPLSLAEPSVIPLLQHGDTISVVSQDPDTGLPENIAAGGTVI
LAGGTDPSTILIALPQSIAEKVAAQSLNTPLAVVLTGDRADNYTTEE

>aaRXN02023 TRANSLATE of: rxn02023.seq check: 8728 from: 1 to: 768
MAPKQTPSPEKNRNLVGPVLQRRQTEGTFDQRLLEMRADHNWKHADPWRVLRIQSEFVAG
FDALHEMPKAVTVFGSARIKEDHPYYKAGVELGEKLVAADYAVVTGGGPGLMEAPNKGAS
EANGLSVGLGIELPHEQHLNPYVDLGLNFRYFFARKTMFLKYSQAFVCLPGGFGTLDELF
EVLCMVQTGKVPNFPIVLIGTEFWAGLVDWIRHRLVEEGMIDEKDVDRMLVTDDLDQAVK
FIVDAHAGLDVARLHN

>aaRXN02032 TRANSLATE of: rxn02032.seq check: 9048 from: 1 to: 570

MPFLQISLLSIGVAADAFACSVVRGTAIQVNLFKRALVLAGIFGVFQAAMPLIGWFIGRF
FAGITFIAEIDHWIAFALLGIVGTKMIWDAFQPEDDETIVDDGRVQFRPAIILGLATSID
ALAVGMGLAFVEVSILKVALSMGSITFALSLAGAWIGHHGGGKFGKWATILGGIILIGIG
ANIVYEHLSA

>aaRXN02039 TRANSLATE of: rxn02039.seq check: 6804 from: 1 to: 840
KASISNLSFWTSTSTTAPLWLVGTLVWLAVQAVMHDGELYHVEVPTIALVIGFGAQLLIG
VMSYLLPSTMGGGASAVRTGTHILNTAGLFRWTLINGGLAIWLLTDNSWLRVVVSLLSIG
ALAVFVILLPKAVRAQRGVITKKREPITPPEEPRLNQITAGISVLALILAAFGGLNPGVA
PVASSNEDVYAVTITAGDMVFIPDVIEVPAGKSLEVTMLNEDDMVHDLKFANGVQTGRVA
PGDEITVTVGDISEDMDGWCTIAGHRAQGMDLEVKVAAPN

>aaRXN02044 TRANSLATE of: rxn02044.seq check: 4936 from: 1 to: 1383
MVTPIMGNSNSILGIYRQKIQNRHLVSTLFRAYFPIVTELIILLIVIVTALAFDFTNGFH
DTGNAMATSIATGALKPKVAVALSASLNLVGAFLSVEVATTVAKGVVDLDQFDLSNAWDS
HQLLLVVFAGLIGAIVWNLLTWLLGIPSSSSHALFGGLIGAAIASLGFGGVVWEGVLSKM
IIPALAAPVVAGLVAAIGTFAVYSITKAVGDNEKNRYFRWGQIGSASLVSLAHGTNDAQK
TMGVIFLSLVATGHLGTDADIPFWVKATCALAIAIGTYLGGWRVIRTLGKGLVEIDSPQG
MAAETSSAAIILTSSHFGMALSTTHVATGSIMGTGIGRKGAKVRWSVAGRMAMAWVITLP
ASAIVGVFCWWVAHGIGLISSDLLGVLVAFAILVILSGYIYARSRRVPVDPSNVNADWNE
ESNSVEPATPSAPAASEITEAPAAPAAQAVQDLNNENEVTK

>aaRXN02045 TRANSLATE of: rxn02045.seq check: 8713 from: 1 to: 261
MNFATIFGSIFEVTLVGILLGAGLPALFALGIRFAHSPSSNGTNALGKIASTICFAIIAV
AIIAGILWVTKATIYQYSGFDIFGTEG

>aaRXN02049 TRANSLATE of: rxn02049.seq check: 6577 from: 1 to: 609
VRYLTLATIIAGLSGFVVIIIAAWALGDSSQLSEEFTAYWGLFFAGTGVLTGLTQETTRA
VTAGSRGGSRGGRAGSVVGFRPFLFSFVVAAIVLVVLGASAPLWIGQLLSNLQGVGVGLL
AVGLASYAIQATISGIFVRLPIVERVCLADFFGHRRAHGFNCCRLVAGLSIAGVLDHHRC
GINILAGHRAVLRFGAFRFGIGC

>aaRXN02050 TRANSLATE of: rxn02050.seq check: 1487 from: 1 to: 795
LDTGVRMVLTVAAWLLGYQLLAFLIITVVGSISWLVIVLCFGSVRSVLGSVADVSRGVFI
RQALLAMAASGATAVLITGFPTLLKFTNPSAVAGGVSMAAVSYAVILTRAPLLVPLQQFQ
SAIIVRFVKGTSGPLKTLAGPLAIVWAVGLVGAGLAWLVGPWILDVVLQKELFAVPGWLL
AMLTLGATTTASLMVSGCAAIAFERHGIYLTGWVVATVVAVGFLLGPFDLGVAAGLALIV
GPLCGLLVHMGAFVGGDRNRVLTAG

>aaRXN02059 TRANSLATE of: rxn02059.seq check: 3288 from: 1 to: 495
MTQPRPDAASVSLEKKRPEGWPVGSFETYPEAQAAVDLLSDNAFPVTELTIVGVDLIEVE
RVTGRLTWGRVIAGGMASGAWLGLFFGIVMALMSGFWFSSIAAGIGMGLVFGIVGAAVPY
AASKGKRDFTSSTQIVAGRYDVICSPERAREARDMIALKTRDLRQ

>aaRXN02066 TRANSLATE of: rxn02066.seq check: 2735 from: 1 to: 492
MFNSDTTANLQAKSRDRAGSKAKRSRPSFDSVARDVLDVRTKTAQVKNKAKEFSSVDHLS
ADAAAMFVDNELSRGAMHRARLHIVHCAECREEINRQRETVDYLRSECKNEEVSAPMDLK
ARLASLATECMPGPGAENLAMQRPESFVAKVESVVRAVRKNQGR

>aaRXN02067 TRANSLATE of: rxn02067.seq check: 4916 from: 1 to: 456
VGWGEIFLLVVVGLVVIGPERLPRLIQDARAALLAARTAIDNAKQSLDSDFGSEFDEIRK
PLTQVAQYSRMSPKTAITKALFDNDSSFLDDFDPKKIMAEGTEGEAQRNKQAADNNANVV
ERPADGSTARPTQNDPKDGPNYSGGVSWTDII

>aaRXN02075 TRANSLATE of: rxn02075.seq check: 2111 from: 1 to: 789
MYKVFEALDDLVQAVQRAYGVPMTGNCVVPRQEVLALLDDLRDALPVELDDAQDVLDHRD
GVIREAEEKAIALVDDAENEARNLLARATEESDAMVEDATKHAHSVVAKANDTADRIVSD
ARREANSVTERAQAESERLVNSGNDAYRRAVAEGQAEQDRLVSEAEVVRRSTEEAHRIVD
AAHADSNKLRNECDDYVDTKLAEFETSLSTTLRSVTADRSALRRGAGATGRELRDEQPAA
RGEYERDYERDYERGYERDDRDY

>aaRXN02076 TRANSLATE of: rxn02076.seq check: 9502 from: 1 to: 534
MKSPFIFDVAALLRGSALPEHLTQSGPSPTRIGPEMIAIPEGGKVIVEAQIIPLGGGLAV
EADIEAQLLGQCSRCLRELTPTKTLHVSEVFAADPDFVTGEDAADDEDELPMVNQDQIDL
LQSVIDEAGLTLPFNPVCEELGYGACQDDETPAPDGVSEEVEDEEKVDPRWAGLEKFL

>aaRXN02094 TRANSLATE of: rxn02094.seq check: 8559 from: 1 to: 717
MAEHNAIITDAVHSDPAVLEDNAGFSGKYLIRALDKAAHMQTGAIEGYISWLRKHNPEKT
PAQLQVLVDKHFMRLATGSGAGVGMAAAVPGIGFVTGALAVGAESLVFLDAAAFYTMASA
HLRGIDIRHPERRRGLILVVLLGTAGKAIVDAGVGDLSKKNHAPGIAISRFNIGGLMEVN
GRLMRYAVKEVSKRFRSALIGKILPFGIGAVLGTMANRKIAKRTVGNAYDSLGPLPTHF

>aaRXN02104 TRANSLATE of: rxn02104.seq check: 737 from: 1 to: 1122
MSNSPTDVSTSAPRIMIAPDSYKGTATASEAAQYLGEGVLEILPNASITLAPMADGGEGT
SSVFGGQVITLPTTNAAGRLTEASYTLDSETNTAYIDIAAASGLPAVADDLVPTTGDTYG
TGVLIADAVTRGATRIALGLGGSATTDAGSGILIALGAVPRNKEGYALRTGGADLINLDY
IDTAELNIPAAAVEWILLTDVDAPATGPQGAATVFGPQKGATEKDISLLDAALHHACAQL
EVDGTKPGMGAAGGIAIGLTWLSTLMHGNDQQIHILPGAPLIARSNGIEDALPETDLLIT
GEGRLDSQSFTGKVVGTLHGLAKAHDVDLAVAAGIVEGGIPDDFLAVEMIKSSDVAAQLR
DAGRRIAQEYVAQN

>aaRXN02107 TRANSLATE of: rxn02107.seq check: 3646 from: 1 to: 342
MDLHKVAAAHAATLPLSTKEFPFGPEHEVYKVRGKVFLLLTILNDEPIITLKSDPEIGAS
LRSGFPTIQAGYHMNKVHWLSISDGERITKDFIEGLVEESYELVISTLPKYKRP

>aaRXN02108 TRANSLATE of: rxn02108.seq check: 5369 from: 1 to: 609
MGDMKITRHIHACVEISQGNDRIIIDPGTFGAPDLCGATILVTHNHADHVDPELLKPGMT
IYAPRSVAHSIPVECHIVEHGRNFTVGSLSVEVLGSEHAMLTHSMPIAENVGYLINGRVL
HPGDTFQPIKDVELALVPVNGPWVKMLDVEGYLKKFPPKRFIGIHDGIVNDRGLAINKKF
LTHLGETYGSEYSPLEEGESLEI

>aaRXN02114 TRANSLATE of: rxn02114.seq check: 7318 from: 1 to: 486
SIGYAWTTAFHALTPGLGGIAIGIWLLGGVLGGLVIRKPGAAIFVEVVAACVSAALASQF
GISTIYSGLAQGIGAEIIFALFLYRRYSLPTTMLAGMGAGGGAIFLEMFFYGNLAKTMSF
NIIYSTTVLISGAILAGLLSWYLVRALARTGALDRFAAGREV

>aaRXN02121 TRANSLATE of: rxn02121.seq check: 4238 from: 1 to: 705
MITSPFERELKLLNEGELGIVQQLVESSNIGFIVDLELDGDYGWAVYKPELGEQPLWDFP
PGLYKRERAAFVISEFLGWNIVPPTVIMHDAPAGVGSVQWFIENNGEHYFPLFDTRADLH
PQFVRMAVFDLLCNNTDRKAGHVLLDGDHIWGIDHGLCFSVEPKLRTVIWDFAGCTIPDD
LVTDVEQLLEDVPEELHQLLHPAEIDALQRRASRISRLPFLPQAKSHRQFPWPLV

>aaRXN02138 TRANSLATE of: rxn02138.seq check: 8752 from: 1 to: 342
MTAPSTNTGVILTESAASKAKALIDQEGRDDLSLRIAVQPGGCSGLRYQLYFDDRTLDGD
KEDIVGGVRLVVDKMSTPYLLGAQIDFADTIEQQGFTIDNPNAGSSCACGDSFN

>aaRXN02151 TRANSLATE of: rxn02151.seq check: 8209 from: 1 to: 1188
MDWPDIAKGISILGVVLLHVSLAIPGGQDTMMSHLNALLDPLRMPLFFMVSGFFAVKVLN
QSFGELFRGRLWFYLVPYLLWTPVNLYLHRLEGTVFTGRAPGTWEWYSGSMLSATNMYWF
LYFLVIFNLFLWATRKLPAWAIVALVASLWLLMPAYSEIEILRKSIIYLPTFLIGAYFRP
LISRFAEAATRPKAIVFAAVLYVSGLALGVISNGLRDSENHGASVLWLMNLRDTFAHALG
GNLTGFDMDHLPGMIIRIVSLPAGIVLCVWLGRIKPVGEFLKLIGRHTLPIYIGHATGLS
LIFGFGLRWNFMEIDNFSDSLWHHTNTWMVIAFACAMLGGYLTYLISRVPVLGWTLVPPK
LPEPDKTPAKAQADSHVKAQSAKPMNASTSSKTYGI

>aaRXN02169 TRANSLATE of: rxn02169.seq check: 3541 from: 1 to: 846
LDMQINRRGFLKATTGLATIGAASMFMPKANALGAIKGTVIDYAAGVPSAASIKNAGHLG
AVRYVSQRRPGTESWMIGKPVTLAETRAFEQNGLKTASVYQYGKAETADWKNGAAGAATH
APQAIALHVAAGGPKNRPIYVAIDDNPSWSEYTNQIRPYLQAFNVALSAAGYQLGVYGNY
NVINWAIADGLGEFFWMHNWGSEGKIHPRTTIHQIRIDKDTLDGVGIDMNNVYADDWGQW
TPGNAVDDAIPTIPGNSNTGTGTGIDADTINQVIKILGTLSS

>aaRXN02180 TRANSLATE of: rxn02180.seq check: 4458 from: 1 to: 1458
MTSGKSTSTRGALDRYFKISERGSSIGTEIRAGVVTFFAMAYIIILNPLILGTTPDVEGN
TLGIAQVAAATALAAGVMTIAFGLIARYPFGIAAGLGINTMVAVTLVSGEGLTWPEAMGL
VVLDGVVIVILAVSGFRVAVFRAIPASMKAAISVGIGLFIAMIGLVDAGFVRRIPDAAGT
TVPVTLGIDGSIASWPTFVFVVGVLLCGILVVRRVRGGLFIGILGTTILAIIAEAIFDSG
ASFENGEANAEGWSLAVPGLPDSFGGIPDLSIVGAVDLIGAFSRIGVVAATLLIFTLVLA
NFFDAMGTMTALGKQGNLVDDEGNLPDIKKALVVEGAGAIVGGAFSASSNTVFADSSAGV
ADGARTGLANVVTGSLFLAAMFLTPLYEIVPIEAAAPVLVVVGAMMMGQVTEIDFSKFYI
AFPAFLTIVIMPFTYSIANGIGVGFIMYAIMAAAAGKAKQVHWLMWLVAGLFVVFFAIDP
IMEAVG

>aaRXN02185 TRANSLATE of: rxn02185.seq check: 8940 from: 1 to: 579
MGRHSTKTSSAFTKLAASTIAFGAAATIMAPSASAAPDSDWDRLAQCESGGNWAINTGNG
YHGGLQFSASTWAAYGGQEFATYAYQATREQQIAVAERTLAGQGWGAWPACSASLGLNSA
PTQRDLSATTSTPEPAAAAPAVAEYNAPAANIAVGSTDLNTIKSTYGAVTGTLAQYGITV
PAEVESYYNAFVG

>aaRXN02186 TRANSLATE of: rxn02186.seq check: 5727 from: 1 to: 198
MYDMANVEKKHFVDPAWPEHNPADGHVVTELISKVAGASSPWGDDKEFPVSAEETGYVHP
YTRINR

>aaRXN02207 TRANSLATE of: rxn02207.seq check: 6831 from: 1 to: 798
MRRRSRVSRLLPATALLASTALLLSACTQGVTDSPDMGKATPAVSPAASNPDGQVIEFGN
ITDMEVTDGDILGVRTEDALAIGTVSDFEAGSQVELDVDKQCGDLTATGGTFVLPCADGV
YLIDAKDPDLDELRATDKPVTVAALTSDDQLLVGNGEDEELTIYREGEEPETFTVAGPNT
QLIAVPVIDRHDAVVRTWNENTTIQDVDYPNDREGATLRVGLGVGQMAGGEDGLLVVSDE
MGGQIAIYNADDVIRLQNDRPHRRGT

>aaRXN02223 TRANSLATE of: rxn02223.seq check: 9117 from: 1 to: 501
MSTYQDDRFPGPDPYAPLGEKPSFTLTSTDLENGAKLAEAQLGGTDISPQLSWSDLPEGT
KSLAITCLDPDAPTGAGFWHWAVFNIPTTVTEIPTGAGDETLGGIEGVVSLKGDSGKRGF
YGAQPPAGHAPHRYLFAVHALDVEKLDIAPDATPTGLGFNLYFHTLG

>aaRXN02226 TRANSLATE of: rxn02226.seq check: 1898 from: 1 to: 1056
MTENQTPSSTSAPKPGPRPGPRPGPRPGAQVAAKKAAVATPAPIAKTSNDPAKFGRVEAD
GSAYVTTSAGERLIGSWQAGTPEEGLAHYGARFDDLATEVELMEQRLISHPDDATSIRTK
AEELKATLPTIAAIGDLDGVEARLSKIINNSEEANERAKEQKAKNRERAVARKEELAVEA
ETLAENSSDWKVAGDRIRAILDEWKSIHGIDRKTDDELWKRYSRARDSFNRRRGAHFAEL
DRTRASARKLKEELVERANALKESTEWNDTARAFRDLMTEWKAAGRAPREIDDKLWAAFK
GAQDYFFDKRNAVAKERDQEFEANATAKQQLIDEYDAQINPEQGLDGARSKL

>aaRXN02238 TRANSLATE of: rxn02238.seq check: 4471 from: 1 to: 285
VTNVSNETNATKAVFDPPVGITAPPIDELLDKVTSKYALVIFAAKRARQINSFYHQADEG
VFEFIGPLVTPQPGEKPLSIALREINAGLLDHEEG

>aaRXN02254 TRANSLATE of: rxn02254.seq check: 1030 from: 1 to: 777
IAVAEEGGLWENLLQHRFGGHGALAGHALGNLVIAALTDILGTSQHALDQIAQLAGAKGR
IIPVCAEPLDLEAEVSGLDSDARVMRQVRGQVAVAATPGQVRRVRIIPDNPEPNPAAIEA
ILDADLVTLGPGSWFSSVIPHILVPGIVDALAQTKATKTVVLNLTSEPGETAGFSAERHI
HVLRQHARNLQVDQVIVDAKTLSSQTERNHVERAARTLGAEVSFHDVQAEDGRGRFTSIH
DPAKLCAALLASFAGARKR

>aaRXN02271 TRANSLATE of: rxn02271.seq check: 4621 from: 1 to: 558
MSFLNSAKTKTVALTATFVGAATLATPAIASADIVDNALAALPSGEISCSQAEKYWTTEA
DYNSKVAQANALAMFDSRGPQIQAALARVDEAANRCGLKGGTVAAQAEATEAAPAAPAPA
PQDNTGTSQTAPAPAAPAAPAATPVVNLAPAGSPTFTIEVPGVGGVQLPDLYQIVQQFLA
QFGIKI

>aaRXN02279 TRANSLATE of: rxn02279.seq check: 6646 from: 1 to: 1458
LISLEKKQKDANFFLSELRRQGYRAVDFLESQTVDQLNNPDVQTYLTEAELIRDDLRSWA
VINQMALDNIDLVPYGEENDEPLAIARKIIEETASHPELRFENLEAQFSEFTILLAQSPE

NLDVARYQELRTQGNFVQELALDSIFGQHAVVQDTGNGEAILDETIGYMIGAGMRETTAR
TASQFAQLYSFVGRQERSIEMARLAFEELQAAGLPHREEELRLGMQLAQVEPIEAREILE
KLLLPKFEQNLTLDELETEALLPLGATVAIHDPQAAAAILRHARENAAGFGNFELAVQAM
TMITDVLYTQNMHEQLLEELNHSLPYAQMLDDQHQAELKLLDSIAIVQADLGSTEALETL
GTAMGLAETTAQKLYVQESLNRAYFTFARPEDCISGAADASALAMQNDDPSNAAAQLEQC
AQYLFQLGHETDGASLLESAFRVEGIPTEQALYYANALSSIYEDFGDSAKSQYWEQQAQE
KQQLLE

>aaRXN02296 TRANSLATE of: rxn02296.seq check: 7700 from: 1 to: 489
MRNQTIAAVAALVLLTAATPAIAATPATAGNGLYSIDMGDEQKLTCVLFDEPSTEAHVVA
SCAATFPVTWKLLDGAHEQAAKLEITQAQDGELSVTASKQPLITTMIAPTSITKPITVNR
LVVVPGENEVRFYATDPDVLPVLITPDSYEVLTDSAAKVKATL

>aaRXN02300 TRANSLATE of: rxn02300.seq check: 2962 from: 1 to: 333
MKTYAVLIAVAGLALAGCSSSAPGIWRATEPADAYLEIADDGTLSGTDGCNRLFGGWEKD
GSTITFGAIGMTEMYCEGVNDWLSQMHTATVTDATMTIFNEAGSNIGELKR

>aaRXN02301 TRANSLATE of: rxn02301.seq check: 2104 from: 1 to: 717
MDLALAQVDSTVSGLYDALDLIGVLLNGIIGGTIARQRGYDIIGFLFLALFSALGGGMIR
DMLIQQGTVAAIDNQIYLALAFSGALIAMAVNFKGRVWELFKVHGDAIVLGVWAVTGSVK
AMNAGVAPLPSIFMGVLTAVGGGMVRDVATGQTPTIFGGGTLYAVPATLSATSMVIFHSF
DQVILGMIISPFLGIALAVTAYWCGWVIPVNTDFAPVNLTVSQLRAMLSKAERKDKDQK

>aaRXN02302 TRANSLATE of: rxn02302.seq check: 9010 from: 1 to: 879
VATNRTSSAGVITSVLASALFGAIFFISGAIEAKAETLVAWRVLLTAACYLLALLHPAGR
KVFKEFWDTLRSQPRQILYFIFLVVLITLQLWLFSWSPKSHALDASLGYLLLPIFLVIVG
RFFFADYITRLQWIAVGIALIAVTLKFVISAQLSWVTFAIAAGYALYFALRKYSGLNNAF
AYGAEVLALSPLAFFMLATVEDPLSNAMLSMVILAGLAGALAMALYLAASTLLSMPMFGL
LSYGEPILLFVAALLLGETLNLSDAIVYSLLACALALLGFDGIRRSRKNLETD

>aaRXN02303 TRANSLATE of: rxn02303.seq check: 6641 from: 1 to: 906
MAENNTPQETEQDQEARFREEFEVGGKDRQLSEEEQLEQLGSYIDAHYPVPDFTPPWAGG
AGDPDPADRYIAHLPDRTTHTAMIMLGSGLDHSMPGVAFIGGVSVDDVPEVGGAIFHPSN
PTGRWAVSFHSGGWWRGSGDALEFQWRPEVAAAAELSGTTILDLDYPLAPGHNLHDMNEV
VGKAVGYARHHNPVSITGWGYSSGAALAAINASLFDALVLTFPDLGSVEKLPAEIRGDAV
VPAAAAWPTTFVQIAAQDEIAERPGELGDATVKEYVSRHRISTPKVAREKITDVAEFLKT
VC

>aaRXN02307 TRANSLATE of: rxn02307.seq check: 9052 from: 1 to: 621
MSGTAIMYDTTVVPSKKEIAQAWTGYVDLQGSYRLVDTVDGEVGVEVLISKDREGRLLQI
PFSYRSAEINPEQTLSTLEHGVLGKRWVTNALGDPVAVREFIRTILTGDDGAARSDGVKG
YLDIKGSGDAESVDLQDVKLTEVTRQRAIGSVTINGERKQFSLRLPQLLKNFRETAAGHT
ATTLRIVATHPEKDDVELLVAEFNWME

>aaRXN02314 TRANSLATE of: rxn02314.seq check: 2536 from: 1 to: 441
MEWYQVRRRARQLLIVLFIAAMLGAASMVIGPFLNDRTIEGNSGRALAQVTNVGSYRTTV
DFQDENGIYHSPATGLLFPTGLGEGQRVWVNYAKSDPDLVKVEGRKWTLSIIPALSVAAV
ATATWSVLWLGVGRFGRRSDDANETTV

>aaRXN02337 TRANSLATE of: rxn02337.seq check: 408 from: 1 to: 1323
MSKLYAGARINALRRTHQLTQSALADKLDLSTSYLNQLENDGRPLTATVLLQLMKVFDVE
ASYFSPDRGTATATRLAETLAMNQGPTMSMDDLLDFADRFPQLAQHIIQPAEVDPTHSSA
HDFVRDYFATHKNYIDSLDRLGEELATAIGQPGLRVTRLAQLLDAEYNITVRFRAPDITG
RRHFDPQSRQILLRQDLSEAQQCFQLAEELTFLAHAELLDTLTTDQPDLPSEAAIRLAKV
GLSQYFAAAVVMPYTRFLEFAQDKHYDIELISEAFGVSFESACHRLSTLQRSGASGVPFF
FVRSDRAGNISKRQSAATFHFSRTDGTCPLWALHRAFERQGNITRQVARMPDGRTYLWLA
RAVKGRTHGFGYPAAEFAIGLGCDISEAPGLVYSQGLNLDPESAAEIGPGCRICPRENCV
QRAFPPSGQESIRPAPVQLLN

>aaRXN02339 TRANSLATE of: rxn02339.seq check: 8878 from: 1 to: 492
PTDNLFSYPAQRYDLLTLAFEVRIGDMVQINDMLAPPPVKLPEDPALGADPTLTSTAIAH

PDSPLVWAYRAENLIKSASNDEEKIQAYAFARTGYHRSLDRLRANGWKGWGPVPFSHEPN
QGVLRAIASLALAAKLIGEDNEYDRCRQMLSDADPESVAVLLDK

>aaRXN02340 TRANSLATE of: rxn02340.seq check: 7304 from: 1 to: 1065
MKKSIVVFEVEGGSDKHFDGHRKDTMPIVNSINDAGWQAEVVYYRPEWTEGLFEYVSENF
DGYISRVNPGNIPGGERGYFDLLTRLSEAGLVGMSTPEEMMAYGAKDALVKLSQTDLVPS
DTEAYYDVETFHKVFPTSLSFGERVLKQNRGSTGSGIWRVQLVDKELAASIEPGTALPLD
TEIKCTEAVDNHTEVRKLGEFMDFCDQYIIGDNGMLVDMRFMPRIVEGEIRILLVGPHPV
FVVHKKPAEGGDNFSATLFSGAKYTYDKPEQWQELIDLFADARPVIAEKLGGDNIPLIWT
ADFMLGDVVDGKDTYVLGEINCSCVGFTSELDMGIQQLVASEAIKRIEEFAQLTV

>aaRXN02341 TRANSLATE of: rxn02341.seq check: 4129 from: 1 to: 486
MGNSLEKHIAEGDRIHVDLTSPLSAMLFPIFELIVITGICWMGIGFLDQLPGIDGTNPAD
SFPEGTRNLLVGVWAVLAAWRFGLPLIRQRRLRVILSDRKLLVRRAGLRTGFDSIPLSYI
QRVQRRRNTLVLGVGGHHRPYVINQVPKARKVEALLKDLTFW

>aaRXN02360 TRANSLATE of: rxn02360.seq check: 7403 from: 1 to: 2433
MRGDVQKITKVYDGKHRTLEIPVYQRNYDWTEKQCSRLFDDLSEVVKENHRQHFFGAVVG
KPQGSWTWVVIDGQQRLTTISLFMLALVHSLRASEVEEGEFNAGYNIDLATLIEDDYLRS
GNEGNLKFKLKPVKNDNEAYQKLFGPESEFIESSNLTANYRYFRNVLKATDLTAAQLWEA
IEKLRVMYLDLEEFDDPQRIFESLNSTGLELSEADKVRNLVLMDQELKTQEKLYEQRWNP
IEVCVKFDTDNFIRWYLTLKTARTPRKQDVYEEFKKFIRNSKLPVEFILDDMYEYAKLYR
DLLGATTGFIAADRCLKRFVPVMGDVVLPFLLPVLKDAKDGIITESDFLGVLKVLESYLF
RRFAVGVASNALSKIFSTAYSDIKKFWTPGQSYSSLLAYILKRRDGSGRFPSDSEFRENF
ATKNFWNIHNENRRYLFDCLENADSNDVRDIQTSLDEGSLSIEHIMPRSLNDQWRAELGP
EYARIHETWINRIGNLTITGYNSAYSNSSYERKRTMENGFLVSPYRINNFIKKQKHWSEE
QLIERTELLTQAALDYWPLPKETFQPPQAVLPTESLDSDLSFRGREIVAFEYEDYKETVT
SWADMLQSVLKVLNQSFRQELIALTNEEICLATSNNSNSSLREIDHGLFVDTGSSTSVKI
GFLRRVFTQLGLEQEALVFTLRPLANDVEPRDDELEVEVEKKYSDLTKFIPQLEEAENLE
GADTEVIPLLSKLKEQLTAFSPENPQAALGGLPVPEFLKQNVIEQLSAEHILAVLTQHFN
IASMMGDDYLLEELRSGRLRELLQRLEELDS

>aaRXN02361 TRANSLATE of: rxn02361.seq check: 1002 from: 1 to: 651
MELLSHLLALDPASPRLTVYNESTGARLDFSAITLDNWASKVGNMLLEELDLEEGSLITI
DLPVSWQAAMIMLGALATSVEVSFDDPEADAIFTSLDRFSHYKGHSDVLIVSEDPFGRGV
VEGGGELPNGAIDFGPTVRFYGDQFFQPTRTLPEIIQHSDVPVGARVLATGWSDIESFNH
QVLEPLAVGGSAVIVTGLADIERLNQIATNEKTTHRI

>aaRXN02367 TRANSLATE of: rxn02367.seq check: 8247 from: 1 to: 609
MSNAEINPVEYEINNHAPGTALNPQCEDGANVEIITSREVPLGGPRAMTVHRTLPQRQRS
LIGAWCFVDHYGPDDVSLTGGMDMASHPHTGLQTVTWLFEGEVTHHDSGGNHAVVLPGEV
NLMTAGAGICHTEVSATSTTILHGLQLWTVLPDKDREGPRRFDHYAPEEITLEGGSARVF
LGSLFGQTSPVHTFTGSSCFRVH

>aaRXN02368 TRANSLATE of: rxn02368.seq check: 7600 from: 1 to: 675
MIVLAGATRVTYEVEPWLAIPLFILAFASILIPFPISKTKGLRDIDAWKIHTTQGDKKRA
IRQLIIPATALAIDIIGLPTLFNAPPLASAALFGGVYGASLAWAAYRADQLPRIRTKERL
AELSQNASLDDVRSDDLDVLEQPESRELVRCLLAHGAMDGTRVMARQVARVLDTEVDEVH
QVARSLEQHGLVSRSTIMPGGDPGKVFIEVSLKGISAIKALESGR

>aaRXN02381 TRANSLATE of: rxn02381.seq check: 8210 from: 1 to: 1023
MSVTNFRRFLAGIAVIAACVAATPTAQAQSSGSSGSSGSSAGSSGLWDLLFPESHESFIE
RLLDPLDDSHISIHPDLTPDLYEEVFDPPQIGECPAVVAVVARGSEQNLQIRPARYSEES
PWTSNGFEEKNFRSFFGRMEKHYRESTGESLMKDVYVMGLNNIEYPASLPLSSEGSSAIE
LGTSISSGRDNVISAIDRFESATGCTPKYLLAGYSQGVLIVDGYEEELIARDQYLGTLHI
ANPAQQVDDPTLVGHEVTTGGLASSVEPVEDNPFKVSYCLPGDIVCDRSFEQFSAAGSSI
AAAQLSTGNIRPGRVHVQYFVTTQPWDEQIFDEVASWIEAA

>aaRXN02383 TRANSLATE of: rxn02383.seq check: 712 from: 1 to: 636
MPVRVIVDSSACLPTHVAEDLDITVINLHVMNNGEERSTSGLSSLELAASYARQLERGGD
DGVLALHISKELSSTWSAAVTAAAVFDDDSVRVVDTSSLGMAVGAAAMAAARMAKDGASL

QECYDIAVDTLKRSETWIYLHRIDEIWKSGRISTATAMVSTALATRPIMRFNGGRMEIAA
KTRTQSKAFAKLVELAQIRADGEPVFIAIGQN

>aaRXN02387 TRANSLATE of: rxn02387.seq check: 2544 from: 1 to: 762
VWWCLPTWIKAGQDAVDLALSAAVDPSPGTYLIVMHSGGGRSKSMVKKLEKVAVVHDAAK
LKDRDRPGWVKQEFKNHKVQVTPDVIHALLEGVGSDLRELASAVSQLVEDTQGNVTVEKV
RAYYVGVAEVSGFDIADSACAGQMSKAVASTRRALQLGTSPVALAAALSMKVGQIARLYS
TRGRINGFELAKELGMPPFVVEKTAKVARNWSGDAVSEAVILMADLDAAVKGQSGDPEFA
IESAVRRVAELARR

>aaRXN02398 TRANSLATE of: rxn02398.seq check: 7197 from: 1 to: 1602
VVEVKKRNLLVAPLTASLVFCNLAVAANAVEVEAESPVVINEVESNSDPVGDWVELANTD
NNNSIDISGWSLVDDKEDLENALVLPEGTEIESGGYFVIYTDSADYVPTNNTFGGQEYFG
LGKDDTVTLRNAEGEVVATYSWKDLGEHAENTYGRIPDMTGDFANTGVPTPGAKNVAAEG
SGEEEGVVANAQLPFHNVEITPIHLGGDFTGEDMSGVDFDANSTAWIANNDIGKIYSLAH
DIANNTYKLTGEWETGYPEGGGEPDAEGIVAATNGDIYLSTERNNADKNVSRPSILRFAT
PTGKTGVQNAVQEWDLSEFVGDIQPNGGLEAIAQLEDNIFVVGVEETGDVIVVDLSADQP
VLVQRYESSFDGVMSLDYNAATKQLSVVCDEACDGLSEILEWDGEKLYKSDDKIYERPAN
LGNWANEGFGTYTSELKCENGNTVSVTSYLWADDAATNEGTSLNSAQVINGDCGDVNIPG
ESSSDNSSSDFATGSIAGAFATAVLAVVGIAGALGGFFQQILAAFPALQQVIRF

>aaRXN02406 TRANSLATE of: rxn02406.seq check: 9586 from: 1 to: 549
METLAAQARTLLEKWGVAPTHASFVESIAKAIPILSILLTLIVTVNGISSGNPVQPPALE
QVRTDVVNKINYERNLKGLVSISPELELHTAAQTIAQRNADSDSEEKVPDPEGNLVVLQQ
NLPYANANADTIVDRFLNSPDHVKLLLANDYEAIGVGVAYKGDHAWIVVEFTVAPADSVE
STE

>aaRXN02407 TRANSLATE of: rxn02407.seq check: 3013 from: 1 to: 372
MNRQNQLHYPQEVKAVESVESSLNMSSPSAPLATPDVELDVHTLSSENLPWLCIVWDDPV
NLMSYVTYVFQTVLGFSKKRATELMMQVHTEGKAVVSSGEKDKVEGDVKKLHTAGLWATM
QQAG

>aaRXN02408 TRANSLATE of: rxn02408.seq check: 1367 from: 1 to: 912
MLIDVAGFLLGHVTKGDTGCSVVIAPNGAFAGVDVRGGGPGTRETDLLEPHNSVQQAHAV
VLCGGSAFGLAAADGVMTALENRGIGFPVRPEGPIVPIVPGAVIFDLLVGDPKNRPTAAD
GEQAVENAFAGTHNGSGSVGAGTGATAGRLRGGFGQSSRRVGKYTIAAGVVANPVGEVVD
LTTGALFGRPEVMGVGVDKLKSAAETLNTTIGVVATDAPVTKAQAKRLALVAHDGLARAV
RPSHSPMDGDTFFAMSSGDGSGVTPVELAELSAHAADCVQDAIIDAILTASPGLGLKSFR
ELLP

>aaRXN02409 TRANSLATE of: rxn02409.seq check: 5850 from: 1 to: 537
MQQWKKKKGLMRQARYAVVFEPMEREVLGDLSAAVSEALIQRAQSVPKDPLAEMTGMTSG
HKEAPTDPALARLLPDFQHEGDEEYDGDNSFLRSLHEGDITRAKLENLRVINDALGPDGN
VAVTASEEEAHAWLAALNDIRLYVASGDVRGGEAAEEDRENLVQWLAYNQESLLEAMMN

>aaRXN02428 TRANSLATE of: rxn02428.seq check: 3176 from: 1 to: 1134
MAATLDLPDTDPIAYAMFAHCFTGSRFTPAAARVSKTLAESGVACLRFDFPGLSQSEGDF
SKTTFNSNVDDIVAASQWLTEHYSAPQLLIGHSLGGAASLKAATKISCLKAVATIGAPFD
PAHAVLHFADRICDVDDQGAVTLQLGGRDVTISREFLEDLAEVNPEDHLRRLRKPLLLLH
SPTDQTVGVDNAQLIFRVTRYPKSLMTLDKADHLLTKDGTAQRAARIIANWVEPYLVPEN
VCEDLPEFVAEASTIKASKYGAAIRTGGHNFITDRDKSQGGKNLGFTPTSLLVSALAAAN
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CSITQLLAQGIVIDDEVN

>aaRXN02454 TRANSLATE of: rxn02454.seq check: 5811 from: 1 to: 1242
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GARTAHHEYKMLRELQRLGAPSVRPVAVITGRHPAEEDYGELTAALVTEHLEFSLPYREI
FSRHLTVVESEKLIRALSVLLVRMHLLNFYWGDVSLSNTLFRRDAETYSAYLVDAETGEF
QPNLSESRRLYDVDIARVNIIGELMDLQAGECLDKSIDVIALGGLVESSYLELWTELTAE
ESVDASEYWRLSERIDRLNQLGFDVGELKVTKDDSRQVVRIRPVVVDPGHYRAELLSLTG
LSVEEHQAQRLLGSIQAYQAVECGPHVGLTQAAHLWMTNEYEPTIAAVPVEMLDKLEPAQ

IFHEIVDHRWFLAQERGGAVTLPEATASYLESVLPARRDEARLLSTNPSDEDLS

>aaRXN02457 TRANSLATE of: rxn02457.seq check: 8018 from: 1 to: 1110
MFYFTVNNPQDPLSTEIVETNRRDLAFWHRLRPKDDDDLATAINKICVRTGLSRKLIAAC
LFSICFLPYLPNFHKLVEKLGHLDMARINAITKAGEKVPSEKRELFDAYLVDYLTPRAEA
QCLPQASSISAMMRKFIAQHCPDDKASSATNDGSIRYRRNNKGGISITVDATASEVTEIK
AALEQMSKDKDCTPGTSLLHIIRGLPTKVVLNTYGTKDSPEYLEGGTWLSKEQSEFWKTR
TTSSRDMDAAHFSYTTAYAPTREMRVYIKGLRTTCSVPGCSVAVENCQLDHIIPWGEGGP
TTPWNIHPLCVFHHIQKTEGRLQCYPLPDGTVLFLVDGIPVFSIPDGPLSKSNKTWGTKF
GKYMERRIAA

>aaRXN02460 TRANSLATE of: rxn02460.seq check: 7527 from: 1 to: 504
LRVYIPATFSTLRGLNESRVITARSGYGFAVTPALLDFYTDGDEEEIAHAAFQDAAEASI
RLLAIGDEETFPYRRVVVSVDVDDSVVTYQPENGESVVKLSPAHINLDDVAAIHIDVEAS
EADTKKAIEVIDESDLGEEDAELTVGDAQDNFMAWYDPEELPFLVELL

>aaRXN02464 TRANSLATE of: rxn02464.seq check: 6833 from: 1 to: 1200
MAAKLQPLKRTKKDLIATGVITALAVIGVGTVWATAPIRGSELTPADEPFIGSTTLDAIP
ETLSEHWRATDTLTNHKPLITGGVIFTADGNTIKTYTPDGALLWSYERDKELCSLSVGFD
AAVATYKTGIGCGDVTAINANDGQYQATRSAISSDHVAPISSNDRIGVLGTERLELWRSD
LVRTIEYGDVEAPQESGQQPHPECSITSAMTRKDLLAITEDCPDGSSYLRFMGTTPDDSR
TPEITQDIEITDGRIVAIGQSVAAVYTNDPSPRIVSYNDDGELVGEQAVDEVEFPDPPFQ
SATADLPHHMSWFNGDSLVLFSPTQLNVRQSFNDALGTGIALNGSLLYPTAEGITVANWD
TGEVQRTIPVDRAGYDGEVALGVVGQVIVEKRGSEIVALG

>aaRXN02465 TRANSLATE of: rxn02465.seq check: 154 from: 1 to: 399
MPASIRWGGIVALIQSTIGFGYAFFLIYREATGETDPSIVYETDNANTWVGYGTAAFFII
VFGTVVAGAINMMKGHRWGRGAVVMLNIILLPAAYYMFIEGRFSWAIVTGISALFVLGAL
FNKRAVLWANNEI

>aaRXN02466 TRANSLATE of: rxn02466.seq check: 2914 from: 1 to: 87
VGEGQEQTFTYVIEIEDGVNTAAYGGDDA

>aaRXN02505 TRANSLATE of: rxn02505.seq check: 6513 from: 1 to: 171
VAGTHAYVNETLSENEFSMCRKNEPGLVIELENISIDRIVISTPDAHRYADELMAAV

>aaRXN02510 TRANSLATE of: rxn02510.seq check: 1304 from: 1 to: 636
MDSSDSHVGQDVYVDQGLGEPDRLERLWAPYRMSYINTRSGGKQSTTAKRDPFIEVPKMS
DEDGLIVARGELVYCVLNLYPYNAGHMMVIPFRKEKNLEDLSLAESAELMLFTQTAIKAL
KQVSNPDAVNVGLNLGKASGGSVGDHLHVHVVPRWSGDANFMTVIDGVKVLPQTLRQTRA
MLAQAWGTIDGAPGTVDPTLTSAIRTAAPKEH

>aaRXN02519 TRANSLATE of: rxn02519.seq check: 317 from: 1 to: 1629
VEDEQSPLGATLFDVATGASSINDRDTDASGLEPEKIRRFAWLRLIGTMGALMIAFGALG
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ASVSLSMLRRTFGAWVAPIMLTAPLFTQDIYSYLAQGSVTAQGMDAYAGGPLELLGPDNH
LARSVPFIWAQSPSPYGPVALSIAASISVITNDSIVGGVLAHRIASLLGVVAAGWAITML
ARRCRVSEEASFYLGVLNPLLILHLIGGIHNESILLGFLLVGLELGLRGTDRIQTGLWGP
AWTYIALSGVLISCAGLVKVTGFIGLGFVGMALARAFHARGHRHVVAIGVAGLVQVAALV
ITVVVLSVITGISLGWITGQGGAATIRSWMSMTTNIGVISGFIGMNLGLGDHTAAMLVVT
RAAGIAVAAAFMVRMLFATYRGHIHAVGGLGVATFVLVILFPVVHPWYMLWAIVPLASWA
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GLH

>aaRXN02520 TRANSLATE of: rxn02520.seq check: 9529 from: 1 to: 684
VGDVVKGNDAHTGDGDTRRKILLILLERAPVIASDIAEQLQLSTVGVRRHLDNLVEENLA
EAANPRQNPYEPKMRGRPAKTYRLTDKGRSIFGHEYDSLAAAALATLREVGGDDAVRQFA
RKRIETIVEGITPADVTDQSIEDTAKSLVEAFSRHGYAATVDATRNGLQLCQHHCPISTV
ATEFPELCEAEHQAVSELLGQHTQPLATIADGHGICTTNIALTPIKHS

>aaRXN02534 TRANSLATE of: rxn02534.seq check: 3127 from: 1 to: 804

MNSPNADIILVVNKLSKFIDIENIMLVGARCRDIHQQKYRDQTAGRRTKDVDFALALESW
DDFNLLKQQFSPTGNAWQGITIGNIPVDLVPFGNIENPPGEVLSRKGHLLNVAGFKEVFE
QAELYPLNDAIDIKLSTVPGLTALKLHAWLDRKENNIKDASDLALILSWYEEDVETLWNR
YFALENQGYIGEPEAMAAELLGLDTGRILGHKETQALLDRFNEQSPPELNQFAESLEAPP
EHSHPLERRRIQVEALLGGLRDSLGYDE

>aaRXN02537 TRANSLATE of: rxn02537.seq check: 3878 from: 1 to: 462
MLALKSSELEGIATSLTAVAGALHESNTDRLQSWQQLETMTSASSLIQGFIKLVDYNRPT
VNIVEQMHKTASTLFNTADFLRTLEGYVDVLEKQADKSITLTVMLRYIASLSSLLDLMCA
REINALCTAITPEPLKHLGDFGTLPPQQSTSFIW

>aaRXN02538 TRANSLATE of: rxn02538.seq check: 5301 from: 1 to: 672
VNAPPEIRALAEAHPDMQILEAGDGSLVASFGDIDRATTVTTIVAGVGSSNPEGWNTYVD
RARTVSASTGSATVLWLGYQAPASIPAAVSGAAANRAAADLQRFQAALQSRNPHQRKVVM
GYSYGSTVVGKAASSGELSADALVLVGSPGAGVSHSSQLGAPVYAVTGSADPIGFAGTQY
DGIHGTDPTAALFGATVWDSPSTHSGYWNDQEFLGNVAEVVRGK

>aaRXN02555 TRANSLATE of: rxn02555.seq check: 3981 from: 1 to: 603
MGEQFPGDKNIRVSDTERSAALAALGQFYAEGRLSLEETDDRCEAVADAKTRGDLNAIFY
DLPNQQIAVVDRSEQTYTATEVAELHRKGARPRAGILGLTTVLAITGTAAFASTTAFATV
LLALIPIVFIMLYVMKIGPESWHAPTPRQLQRKRMIELREKEKLRDMELKAQRKERTHAL
TNRALDAAETAFNTKPWKKNK

>aaRXN02564 TRANSLATE of: rxn02564.seq check: 3452 from: 1 to: 1002
MAEVGAEPAGSAQSKTKQFVVGTAAVVITAIAAFFSIQSASGGEDIRSNMTLIAPAAAGG
GWDTFQREQQQSMRVNKIVNNIQVVNIPGAGGTIALGKLSTMTAPNTLMVGGTGHIAAQI
QFDTPAKIQDVTPIARVVEEFDIITVPADSPYNTLEELIEGWKADPAGVSWTGGGSFDQL
VMTEIALSAGIDPKQTTFIPSDGGGEAIQALLNGTAKASTGGFADMYPQVEAGRLKVLGI
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ERNYWMNASLEGEELDQFVEDEIDRIDQLFKEMG

>aaRXN02568 TRANSLATE of: rxn02568.seq check: 2134 from: 1 to: 1653
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GSATPVPAPGVSAPGASVPSIPVPGSVTPPAPGISAPGGALPTPGSAPPTPGGALPTPGE
ALPVPGAPGAPGASGIPSPGLPTPGVPTPGASLPVPGAPDAPGTPSIPAAPGIQAPGIPA
APGAPAQAAAHAKPVFQDAEKRPRTDEAGNAKKELPLRVRLAQPITRKQWAMTLGVLVLG
AIVVAAIAVVLAKWAFTTEWLQDFVEKYPGKYDNPEGAPVGIPTWLSWQHFFNMFFMVLI
IKTGIEINRTRRPKGYWTPKKGGKKISLTLWIHLVLDLLWIINGAVFIILLFATGQWMRI
VPTSWDVFPNALSAGLQYVSLDWPTENGWANYNSLQELTYFFTVFIAAPLSIVSGFRMSS
YWPKNNATMNKLIPIGFARALHMPVMVYYIVFICIHVFLVLATGALRNFNHMYAGQDVVN
WVGFGWFVASL

>aaRXN02593 TRANSLATE of: rxn02593.seq check: 9101 from: 1 to: 597
MEAMATTITVFSPTHSPAQIRETILSAAKEDDVDFLGVPFTHPRNVTIEVDDELINDCLG
WLDDVALASGLGIQYNDEVLRYGDEDISFTVQTKNDDDARIGASRLGLEHQLNVIAGGSG
DSGDSGDYLKIAHFDLDNPADESSYIFARSLAEVDGWTLEFGVAGVKNTTIVSSIDDAIT
TILRWMNGEDIRDLNWTRA

>aaRXN02606 TRANSLATE of: rxn02606.seq check: 7692 from: 1 to: 1371
MQEIHTIMKHMDALIADPSAAAFKATLPFAELLEKLHNKKALFDAALAKSAERADAGRII
GKTSHIDALAYLLDISKSEAFRRTKRAEEHYGNPSPEPSSEELAKETPEEKLAREEKEKQ
DLAEQAEANRIAREHGISAEKQDTIRYELEKLNDNTSLSRASLRKLAMQEATSRTPEDLR
NWTRNKVIRINPTAKDPLAAVKKRSLSIGRQDHDGGAKASLYLDAKGLALLKSLMSKAKP
GHLLEDSLAEDKRTKPQRQYDAFADILHRAHSDLLPARSGVGTILVSLSAKDVTNLKASG
PDHRYPTSTGIKLTPLEILRLGAAKYDFVTVLDSESGRPLHLARTQRTASLYQRLALFAS
ELVCTREGCDSPFEDNEIHHIRSWLDGGPTDIENITNICPHDHGNNNDQRDGKDNMGHMN
IDPTTGRVGYQPADRRKPMRFNNTAAAAESGGAQART

>aaRXN02610 TRANSLATE of: rxn02610.seq check: 4081 from: 1 to: 927
MRKTITVIAVLIVLALIGVGIVQYVNTSDDSDFIGQPGEPTGTETTEPPVQPDWCPAVEV

IAAPGTWESAANDDPINPTANPLSFMLSITQPLQERYSADDVKVWTLPYTAQFRNINSQN
EMSYDDSRNEGTAKMNEELINTHNECPATEFIIVGFSQGAVIAGDVAAQIGSEQGVIPAD
SVRGVALIADGRREPGVGQFPGTFVDGIGAEVTLQPLNLLVQPIVPGATMRGGRAGGFGV
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WATNLIDNG

>aaRXN02624 TRANSLATE of: rxn02624.seq check: 3015 from: 1 to: 1296
VLIPHGVAVLLVIILAVASLMFTNSSMVNLSATIAQLWLSLNLGAVDGSGEVISVLPTLP
GFIFLWAIAARIHRAVKDRVSIADLGVLAALVLGIPLALTAIAAFMLFDASSVLNVEVPP
ITRLLRVMLFHLSALFLGMGPRLWQALARRYGAPEWLIDAITQAFRFLIAFGTVSLVSVL
VMTAINHSAFTATMQGYDDSASVVALIVLSILYLPNMMIFAMGNLIGSPLYFGDASISVF
SVHSVPLPPLPILAALPSEALSWAVALLVIPAIIATWVCVRNPMRLAVNTTAAVISALCF
LVLAVFAGGTLGVYNYVGLNLLASVGLVFVYFALVGLLIAGIDKLRNPVEVKSVKAVAVV
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EETNDGSEAEDR

>aaRXN02626 TRANSLATE of: rxn02626.seq check: 9067 from: 1 to: 1005
MSTQVELKTPKSEDRAAYIAALGFPVLVIIGGIIGFTASDVVLNISSWVNPLLGIIMFSM
GLTLKPVDFALVAKRPLPVLIGVIAQFVIMPLIALLVVWVLQLPAEIAAGVILVGCAPGG
TSSNVVSYLSRGDVALSVTMTSISTLLAPIFTPLLTLWLAGQYMPLNAADMAVSIVQVVL
IPVVGGLVVRLIFPTLIGKVLPLLPWISVIAISLIVAIVVAGSRDKILEAGLLVLAAVII
HNTLGYSLGYLAAKFTGQPAAARRTTAIEVGMQNSGLADGLASQYMSPMSALPGAIFSVW
HNLSGALLAALCRASDKRAAEKVASEKAASEKAAS

>aaRXN02656 TRANSLATE of: rxn02656.seq check: 1781 from: 1 to: 840
MIFGVLAYLGWGMFPAFFPLLLPAGPFEILAHRILWTAVLMMIIISFTSGWKELKSADRG
TWLRIILSSLFIAGNWLIYVIAVNSGQVTEAALGYFINPLLSVVLGIVFFKEQLRKLQIS
AVVIAAAGVLVLTFLGDKPPYLAITLAFTFGIYGALKKQVKMSAASSLCAETLVLLPIAV
IYLIGLEASGHSTFFNNGSGHMALLICSGLVTAVPLLMFALAAKAIPLSTVGMLQYLTPT
MQMLWALFVVNESVEPMRWFGFVFIWIAVTIYITDSLLKK

>aaRXN02673 TRANSLATE of: rxn02673.seq check: 5852 from: 1 to: 633
MAALLVLLVVIALIIWAVVALRGGSSEPEEEQPNNAVVTSSMESSATSSSSSKESTTEAT
TEEETSSAEPTATSSVAADAKKTCELSDLVISASTNQPTFSGSAQPELFMAVHNPTAVDC
EIDLEENKLRFEVYNLATNARIWSDVDCNPAVEDGTSVFPAGEDRYFQATWSRTTSAPNQ
CNNRTDVPAGGYYLHTVVGNNPSPAVTFNLT

>aaRXN02680 TRANSLATE of: rxn02680.seq check: 5186 from: 1 to: 1284
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VNLTDLTEEQQAAALNVLKNLLNDDAYQMIEDIMASDQYLNDESNTTEDSLGQYYIAFFG
DPSSDSDWSIQFGGHHIGINTTFSDGAITFAPTHLGTQPSEWTNEDGETVAALSNMYETA
FAFYDSLAEEQQAQLYQGEELDSMVCAPGSTCDYPTGTGLKGSDLTDEQKELLIDVIANW
VGLADEETTETELDAIRETLDDTYINWSGATEYDTSTGDGIYFQISGPKVYIEFANQQGS
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MPSGAPSN

>aaRXN02693 TRANSLATE of: rxn02693.seq check: 9728 from: 1 to: 1776
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FIGAEIAMWWALSPSLLPKPWWVTAANLAVLQAVGHAAATGIHSILPRTNRRVSRKIYNA
THIATGAITLTTTVVGLIRHRTQIRLIGQKNFGPKETIAGISVGTLGYGALLITGELTQH
SINEVKLLIERFLPPWISFIAAVSVITLTTLTLADRVLLRRILHNSAIQAAHLNRMVFPG
TEQPWEPERSGSPWSYEKWGAVGSQGRAVLSGGPRKDDIITVTRLSDTETHEPIRIFIGM
VPGRSLSDQVDLVIHEMRRTGALRRDHIVINNSTGTGWITDWSAHTFEFLTGGNCVTISM
QYSYLPSALSWYKDNDGPINAARMLIDAVLHELDQLPTGSRPKLFLAGESLGAYGLAEVW
GDVEKLLGTADGVLLSGAPRFSDAMNALRTRRDASSSERLPVIDSGRHIRFAGEPEHLDM
PATWQFPRMIVAQHASDPIVWWNAELFIRRPEWLKTPKQDHQDVFPRLRWMPFVTGWQVA
LDLFTSTSVPGGHGHNYHEEFIDYWAALLDREVTPELRHSIAYWIRANHIKR

>aaRXN02696 TRANSLATE of: rxn02696.seq check: 3394 from: 1 to: 456
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>aaRXN02697 TRANSLATE of: rxn02697.seq check: 1664 from: 1 to: 1527
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VGQLLLIGAWVHLGRRLFKKKVADDTADAADLGLVKRTLYAMVVPLIFAAPMMSRDVYSY
LMQGAMLRDGFDPYTEGAAVNPGPMLLEVSHDWRNTTTPYGPLHLWIGDMITTVVGDNVT
LGVVAYKILSIIGLAVTGWSIVRIAQHFGANPAIALWIGVANPVMIIHMIGGMHNESLMV
GLVSVGLLLALKKRFVAGVALIAVAVSLKATAAIALPFVVWIGMHHFAGFLATKKGKDSP
TLKQQVPAFFATGAAGVAVTGVVVSAITWASGASWGWISEISGNSKVINPLAFPSLVASV
ITMVAEVFVDDFDYNAVVNVVRSISMLIMLGGLVVCWWLFRQNERRAVTGTAAAYAVAFV
FNSVTLPWYYASLISLLGTFKPPMWLIRFAAGASVFIALMFTGSGNHQLYNIVTVIIAAI
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>aaRXN02720 TRANSLATE of: rxn02720.seq check: 5443 from: 1 to: 702
LERREELQVRLQQVQARIDATLNEHNRPEGSVRLLPVTKFHPVEDIKILQEFGVTAVGEN
REQEARAKALELPDMDFHMIGQIQSKKANSIARWAAAVHSVDSEKIAEALGRGVALALDR
GDRTSDELPCFIQLSLDGDPSRGGTPLSQVTQLADCISDTTHLRFEGLMCVPPLGWGPEK
AFSQARDVLSGLEEHFDRSLEFSAGMSGDLVAAIKHGSTIVRVGTEILGNRPLA

>aaRXN02744 TRANSLATE of: rxn02744.seq check: 343 from: 1 to: 804
MSKPFENSALRGSSRFPAGTFTPAPKRATPAKMLAAQGKMESLLFLRHGEQQLLSIIIPL
VALIALANFDFIPGENSLDKTFPFALATAAMSAGFTGQAISLAFDRRYGALKRTGASGVP
AWTIIFGKVIAVIAVTIVQIIFLGVTALLLGWSAPVGGVLFGIVTLFVGVSSFTALGMLM
GGTLSSELVLALANLIWIVLSGLAAWAVFSPSVNAEGVLSIIPSVALSQGMVDAFNGELP
WLQLGILVGWLIITGVAANKLFNFSASR

>aaRXN02770 TRANSLATE of: rxn02770.seq check: 2969 from: 1 to: 1566
MLVAALVMTSCGDGEPEPTSHQTSLFGYAVNSSLATTNAASLLGVANDAGLLAARVYPGV
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LFQSHVPLTSQIERVDCVSGSKVATVVFKEDLGERWRYLFEQGDLLPAHAVASKAGMTLE
ELNQALKDKDPEALTEPARVWSEGFQLSQFDPELQTAFGPYKVDSVGEFGEVKLVRNEFY
SGDQAVEAEITMWPKGSDLSAIADNGNLQIAHVVAWESEPWVNRDDPLNPYDIKEEVGVL
TEQLTLASAGVFYAAEARQAFAACVDQEAVAAASSSISGIDVPAVGVHSVRHQNPVVHQI
GDLPAQHMAVDINAASALAGQSIRIGYDGPDERKAAMVEAIRQSCEPAGITVIDASQEAV
SLNDLSRTEVSEWGYEQYFEGTLDAVLRTVDPHREYENANTIGTDAESTRRTEEQLWAEV
PSIPLAAQPRVFVIDRTVGNVVVNTDLAGIGWNMDRWSRSEE

>aaRXN02781 TRANSLATE of: rxn02781.seq check: 9745 from: 1 to: 1191
VVAALVFGFLLPTWERGLSDAALKFVFEGGPDAAREVLGTIAASTISVTGLIFSITLVVL
QLVSSQFSPRMLNGFLRNRIVQATLAMFLGTFVFSLTVIRYVWSEDEDITGFVPRASVSV
AFLLVLGCLGLFLAFIRLITFSMRVANAISEIGEETMALAARIYPVQSDDAGPVQGPGWS
PRPGDPREEIRVGNHGSLVWIDYRKLVSWSTEHQAVITVDRPVGDFLVEGQPLLRVWWDG
ELSDRDRRVLHSAIEVRTERELHQDVAFGLRQLVDIADRALSPGINDPATAAQCVQEIHR
IFRYLVTVIEPSPYIADDDGRVRVVHQPQRIADMLYEVIREIHLYGADSAMIPRLLRTMV
EDLVTAAADHSLPAVERARGILDDETDEDRDSDTANV

>aaRXN02782 TRANSLATE of: rxn02782.seq check: 837 from: 1 to: 1299
MPTLLIDTHPHLAAQLLDPGLGELLTAGSNKKVQWQCPKHSNHIWTASVNNRTNAKNPRC
PYCAGTRVLAGFNDLATTHPHLAVQLVDQDIAVTISAGSGKRQLWQCVVNPKHQWLATPN
NRTSTKSASSGCPYCANRAVLVGDNDFATTYPELAAQLVDQSAATTFTAGHNKPVEWICC
KHEPPFIWKTSPILRVRQNTQCPVCSERTVAPALNDLATTHPKLAEQIADPQPSGVSAAA
IIPTISRGSHTQLTWQCSKNHDHQWVATVKDRVRGTDCPTCANTGTSRKEAELIEVIRAL
FPNTDVQQGALINGRTGNQGASPSTDVLIPSKNLAIEFNGLYWHSELFIKDKHYHANKSA
LAEQAGVQLIHVWEDDWNLRRDIVIRMIAHKLHATHNLSAVLPTETTDSRVATTAFAVHS
HCRWSLVHALLHS

>aaRXN02812 TRANSLATE of: rxn02812.seq check: 3189 from: 1 to: 339
VWAVAINAGNGISEDQARAASDFSSFSFDTGNADNSALESVLTQASSESAAETTEAQPSE
TPVEPAAASPSDTIINLDTSSNMDRVVDGSQETYHTVTSRTLANLARETGAQG

>aaRXN02817 TRANSLATE of: rxn02817.seq check: 7091 from: 1 to: 399
MILGVPIQYLLYSLWNWIVDTGFDVAIILVLAFLIPRIGRLAMRIIKRRVESAADADTTK
NQLAFAGVGVYIAQIVAFFMLAVSAMQAFGFSLAGAAIPATIASAAIGLGAQSIVADFLA
GFFILTEKQFGVG

>aaRXN02818 TRANSLATE of: rxn02818.seq check: 4037 from: 1 to: 606
SYSRKFLTQVWIRDNVGDYKGLTDTAFRKKLQRDLAYLRRVGVPIEQFTVTSGIAEGQQA
YRLAQDSYKLPEVEFTPDEAAVLGMAGEMGHNQELGAFARSGWTKLAAGGAQRDLSTSTA
LTNAGDLGSLSAKTLDAIIKARQLGKQISFEYRRAPKDAPSLRHMDPWGLVPERDRIYLV
GFDLDRQEARTFRITRVRNIKL

>aaRXN02825 TRANSLATE of: rxn02825.seq check: 7394 from: 1 to: 1839
MKLAPRMRMRSPKTFAALASLALVIGLGQVPIAQAQTEYRTASDGSLNWGFRQSFRNYIQ
TGVAKGSITLGDGASDNGGNFAFTPRTNGTTVTSDSQGTVEFNGSVHFLGHQAEDKWILD
TTMSDIKMVFNGSSAQLVVDLVAREFKGTTYDDIGEYIISDDIVLADVSLNSAADFSQDS
IDLSGTTDLTAAGAQAFGGFYETGEALDPTGGSLTISSTTTAPSTSTTSTSASTSGGTAD
CSSGALGVVTTGTNDGMLGTIQEVNNTFAIWNNLIVNTERMFCNIDTLKARFDTDDSSDS
ATSATSGTTASTGTTAATTAGTTGTTGTASTASGTSGTSGTSGTAATVAGTTPTDNGVCT
ASGSLGVTQASAQWGVKASFQNYIRGSIANGSWTLNGVGFDNQQFQFSGNSGAVDAENKT
GSINFPGSIHFTGHGGILDMQIANIEISFNGNSGELIADVVSSDMDGNSTNYGRTVVGTL
NFSALNVSATEASGSASVSLSQSGSQAFADFYTPGTQLDPISFSATLGGDASCATGSTST
TGAAATANTDNTEGVAGEESTTPANQNSQFQIRQAAADSTGLDTTTTMLLILAAFVVAGG
SMTRFTVGNPTGK

>aaRXN02838 TRANSLATE of: rxn02838.seq check: 4352 from: 1 to: 528
NTGKGGGLTVPLGDGQGRYIAKFPSTAFVGVSENEFANLALAEAIGMEVPARELVGRAQF
EGVPPEFEAMTDGLVLLVRRFDRAGDGVRVHMEDFAQVFGLYPARKYDGAASHDIAAVLG
SAVSIAAGLEFVRRLALSVVMGNGDMHLKNWSLIYRGRGDVPALAPVYYMMSTVTY

>aaRXN02840 TRANSLATE of: rxn02840.seq check: 7123 from: 1 to: 150
MTVISGALNVLLPDATDWQVYEAGSVFNVPGHSEFHLQVAEPTSYLCRYL

>aaRXN02841 TRANSLATE of: rxn02841.seq check: 2452 from: 1 to: 435
MFTAFKSNPTTIKKLVSELINGDDAALNELERHVTNESVRARELPNVQYKATAGRNFAIS
KLVQNLRRINKAQNNPRGVPTHATVILLKEDGSYDGEEQWRIPEKAITPFDMLRSPDFNH
NRLKNRPLMVESQYPWGVPGLIKMN

>aaRXN02846 TRANSLATE of: rxn02846.seq check: 4539 from: 1 to: 750
VLTIAIVLLASVLIGALLQRMTGLGVGLVTGPVLTSLLGPLAGVTMVNGLSIINAVNNAW
SVRKRTDWAKFRILAGALVLGSVPAVAVVYFLNGPWLLIFVGAMVLLALGVSLFPTEKFA
LKQEAKLPMVIFGMIGGFMSTVAGIAGPSLTVYARLSRWDYRDFVATLHPVLLVANTVSF
LLKVILIGGLDFGGAPAWLWIGAVAMIFVGAWLGEIVNAKVSTPMAKRIATLLAAAGAAV
VLFRGIMELV

>aaRXN02847 TRANSLATE of: rxn02847.seq check: 8481 from: 1 to: 1089
LALTARGFLNSERSQTRWKTHFTTQKVPRSGYRYDLDGLRGIAIAFVVLFHVFVGKVSGG
VDVFLLLSGYFFLGSQLRYADRPDSSINPWWPIWRTLRRLLPALVLVLGVSMVLILAWVP
RLQPIEIANQAVASLFYVQNWELASQGAAYGAASAEVSPFQHLWSMAVQGQFYLFAILLS
MAIILIRRYRPEYSAVRLATPVLAVLTSVSFFSAILWHFIDQSVNYYSTFTRFWELGLGA
LLVLHAPRILISAKTKSILAAVGLFMVLSTGFFMDGAETFPGFPALYPILGACLVILGDG
KISVFLSRKWMLWLGDIAYPLYLWHWPLLIIFTALFNQEEPSIWLGIAVIMLSLGLAQLT
NKY

>aaRXN02849 TRANSLATE of: rxn02849.seq check: 4597 from: 1 to: 282
SPYPVMISTSADASNVTVRIMGVDTTSVESINNGRWSTTQPNTVRVSGSDCVPSTGAPGF
TTSDTRIISDLSGNEITRETVTTVYDPSPNVVCS

>aaRXN02911 TRANSLATE of: rxn02911.seq check: 602 from: 1 to: 459
MRTSKKEMILRTAIDYIGEYSLETLSYDSLAEATGLSKSGLIYHFPSRHALLLGMHELLA
DDWDKELRDITRDPEDPLERLRAVVVTLAENVSRPELVLLMDAPSHPGFLNAWRTVNHQW
IPDTDDLENDAHKRAVYSGAARSRWPLRARLHS

>aaRXN02914 TRANSLATE of: rxn02914.seq check: 6261 from: 1 to: 543
MVGNSIWIIASLLGLSALISTYPAILNLLQLVGGGYLTWMGIGAVRSWWTKRSTQQAAAD
SQAVENTLVTATAASVGVWPAIRSGIATNLSNPKAVLFFGSVFAQFVRPDMGIGWSIFIG
VFLTLTGLLWFVGFAVLVRKLAAGLTRNGAIIDLLTGVIFIGLGMFMIFEGVVGIGGRVV
G

>aaRXN02921 TRANSLATE of: rxn02921.seq check: 4157 from: 1 to: 471
VSALEESIRIATIAAKAADEKKADDIAVIDVSDMIAITDCFVVASADNERQVGAIVEEIE
DEMTKAGFEPKRREGNRENRWVLLDYGLVVIHVQRQAEREFYGLDRLYRDCPLIEIEGLE
TFKRESSWSDEADIRNIDSIDELPPLPAEYEPGYEDD

>aaRXN02924 TRANSLATE of: rxn02924.seq check: 3999 from: 1 to: 549
VPSVASISERATFILTADHFLRSCSKVIYVRGENFTATATTSLSVFGTDLGLIKLDGKAP
TMPLPLFADKPLRVGMKTTTFGFGGLPSATVAKEIHGRVISAIPHGVSRNRITRVHHGAL
IFNSPEKAVKGDSGGPVLVNGRVAGIQSMISDPGGFNTGVATAASLIQHMPALAQALELL
EHS

>aaRXN02927 TRANSLATE of: rxn02927.seq check: 3221 from: 1 to: 468
VADEGSILAWFPCGDEAPVLVVTLCFAIFGEVVVAEVSATGLVAVEGVDTHEFAEVDVVG
YACCVFENLVHLIGAAGDAHVLPEVIAEGTDLVDAILEVFYVSGNATGEVQDIAKLAVVV
LRSVNVVTDPLWAVAHEAVNASLCTRNRCLCFWCIL

>aaRXN02928 TRANSLATE of: rxn02928.seq check: 382 from: 1 to: 693
VAGRCNTHWAGVWVLANCLFVHGEEVGVTLADGVLSEALGGVAEVQVCSVVQRSNTETSI
DLLGDRTGSNVTWDEVTECWVAALQEVVALILRDGVWIAVIVRFLRGPDAAVVTQRLGHQ
NGLGLPGGVHRQAGWVELDERWGREVCAGFVCTHDGRGVGVLGQGGHVVHVAVATGCQDN
GMAGVCGELAGDQVAHDQAFAALFTVTFGDNDVNHFVMGEDFYGAEVDLAL

>aaRXN02931 TRANSLATE of: rxn02931.seq check: 8393 from: 1 to: 225
MQPYPRNPIEKRKQEVRKNSRNAVVSVGGGIVGGAALWLVFGSAFFMGLGLIIAVVGGFY
YYNKVQKIINEKDRY

>aaRXN02932 TRANSLATE of: rxn02932.seq check: 938 from: 1 to: 972
VSKTEEGRSAAIIIYAFPTFILLGAIIAFIFPEPFIPLTNYINIFLTIIMFTMGLTLTVP
DFQMVLKRPLPILIGVVAQFVIMPFLAIVVAKMFNLNPALAVGLLMLGSVPGGTSSNVIA
FLARGDVALSVTMTSVSTIVSPIMTPFLMLMLAGTETAVDGGGMAWTLVQTVLLPVIIGL
VLRVFLNKWIDKILPILPYLSILGIGGVVFGAVAANAERLVSVGLIVFVAVIVHNVLGYV
VGYLTGRVFKFPEAANRTMAIEIGTQSAGLASGMAGRFFTPEAALPGAVAALVHNITGAV
YVGLVRNRPLTKASRKKESVAVSS

>aaRXN02934 TRANSLATE of: rxn02934.seq check: 3200 from: 1 to: 306
VGADEFDFIFEIDAPEAGFALVDAGGVSFFVEFPHAGFEGEVVFTVVGEGDLLAECVLSV
FCGVGLAFAAPDADEREEREESVVEVGAFAEVSGVVRDRKVT

>aaRXN02936 TRANSLATE of: rxn02936.seq check: 3720 from: 1 to: 198
VVAPFQLVGLVSVQLRSSFSEPATEEAEDTEAESPTTPTGLPAAAASIATLDNASARLFF
SRGIHV

>aaRXN02939 TRANSLATE of: rxn02939.seq check: 7866 from: 1 to: 1602
MNLHSLEIRQISSGTISERKTWIFPTAARSFNQNLVHPQSIEIDAQTGVILAMENRLQRT
EVESVEYPTDLPNPAWTGPAISWPLKDPSIDFPDPLPHSISELPPQSDNPRHLRVSISLD
AVEGAFPRYRIGDSIRIPLVFARDTPFMSGLETTRRAWIEAATEMDIHNTWPIILTGDGW
TALSHSDKPIRHEAELKGWFFHSLFGSEMPLTDLKIERIYGGLGTFDSGATRWQELTDTD
DAYTENGSWLLEVIVDATLDGAIPPPLQPQQFEASITHIVDEQLWVLGQMLPVLRCWDLE
TGKYLGQTYVPISVSHSSRLQFSEGLIHDYENAWSLNPGVRMLAEPQPWIEPVIELDVPA
PWELQESFPDGLYSLTDGEQTALGRSTPAGQLEICVISNDGSRILNAGRVEDLYFVQFWG
MTVFLNSNFQVQSAEEHQLGAKRERWITQEGVAAKFTEEDEIVFLDQISESEITRWKTPE
GYFTEVRILSPNHFNILVTPPTGSDYLKPVPSSVSVFRDGQWSNIKFEDVSVEI

>aaRXN02950 TRANSLATE of: rxn02950.seq check: 7742 from: 1 to: 324

MTVFNVLHDAPAPQPDKNRPGVKRLLQGDGANLIAFTFSPGQSLPDHRAAHPITVTAFSG
QLTFSYGEETFELSPGVTVHLEAGVTHRVDCPPEAPGDASNAVNYAHW

>aaRXN02951 TRANSLATE of: rxn02951.seq check: 852 from: 1 to: 609
MSSTLARKASGDGSEKKKPGLFRRALRFLTHPPHKQVDNSLADIREGLGLGVDDSHEGSK
PSNDHSLLHEKPEISVMPTESMARLIFYAPDMDGQTDPGEVVWIWAPADGPQQPPRKRAI
VVVGRNRNAILGLLISCNPEHRTDEDWIDIGSGSWDPRGRQSWVRLDRVLEVPELGIRRQ
GTVVPPGREERIANRLRNDFNWV

>aaRXN02957 TRANSLATE of: rxn02957.seq check: 2405 from: 1 to: 291
MQTAQGGRVYTSLMDEKSLSPLIGLPGRENIGLGRHWHGLSTMLRVLNGIVYVVLLFATG
LWQGIIPTSWDVFPEAWETLKVYLGFRAPGIEHFTPL

>aaRXN02967 TRANSLATE of: rxn02967.seq check: 8901 from: 1 to: 318
MDLLVVAVHEGGQPRQSDCNAPGCAHTWLCAINFQLGAGVVEGGVEKRNVFFGGTFLGPE
YGGRALRAGGGGVDIGEQDPFDGGCGDVEFGGIDVIEVDEVGATGS

>aaRXN02971 TRANSLATE of: rxn02971.seq check: 4841 from: 1 to: 312
LIAIVALIVALVVWLFNRSDDSGSTTTTSQECISGNLSLPVGGDSTAAEELVNKFNDSSP
VSRDFCVEAEAVDGNVPAATYLFAGSRSDAATALAETGAVASSS

>aaRXN02978 TRANSLATE of: rxn02978.seq check: 8219 from: 1 to: 1509
VIDRPVWLFELYNTAKEVVYSLLIDQVTGENTILKKDDGWRDQFMIESFFAYDSEADATS
WSGKNMNSYWFVSDLISNISFAERSLESFSWALRDLEDLSSSETEFEGLEELNLKFSELQ
EWYTNLELPFQPSAADVDEVEQYLQAEVTRQRGDYQWSPEFWIPKPDSYYIDHALAVVTD
VLGAIEQGELREEVEVQQALDEVSENWNPLEDSDYYLQDHRGRPVQDLSREMEELVRCLM
LDQEWWGAEARIRKLVESVEWEDTQAISSLIEHEQYWEDGRFRPPLHKFSEGLDEPEPLP
MTRKMILATNHPDVLRVNIADYYQQHRRIATQKVECYKEVLALYPEILKKFDDSSFVNRH
WIYRAFDREGQLLYIGETINPLVRLREHAGLGSINHAHHRLVSPWFSTMATFHLESCFTQ
AEAKEKEALYIKLEQPRYNKTHNSARLAVSEEGVPVNEVPSRNDPRNVGWKGHRHVPPML
PIVARVVDESTTREGYAFYEDNR

>aaRXN02995 TRANSLATE of: rxn02995.seq check: 169 from: 1 to: 1566
LNHAKVNQHPGQATLPETAEGQVRTYEVKTYGCQMNVHDSERLSGLLEEAGYVAAPEDTT
PDLVVFNTCAVRENADMRLYGTLGNLRSVKEKNPGMQIAVGGCLAQKDKDTVVKKAPWVD
VVFGTHNIGSLPTLLQRAEHNAQAEVEIVDSLEQFPSVLPAKRESAYAGWVSVSVGCNNT
CTFCIVPSLRGKEQDRRPGDILAEVQALVDQGVTEVTLLGQNVNAYGVNFVDPELERDRS
AFSKLLRACGEIEGLERVRFTSPHPAEFTSDVIDAMAETPNICPQLHMPLQSGSDKVLKE
MRRSYRSKKFLSILDEVRAKIPHASITTDIIVGFPGETEEDFQATLDVVKKARFTSAYTF
QYSPRPGTPAAEYENQLPKEVVQERYERLMVVQEQVCEEENQKLIGTTVELLVQAGGGRK
NDATKRMSGRARDGRLVHFAPEGDIDGEIRPGDFVTVTVTEAKPFFLIADSGVQTHRRTK
AGDNSAVGQVPTTAPIGVGLGLPQIGAPKVAPATESACCSIN

>aaRXN02997 TRANSLATE of: rxn02997.seq check: 4243 from: 1 to: 729
PLPGQPFEGEALTLINALLHHAENVAASNPWKRTTFHTAHMHPPGSNADCDYCLVLQRRG
YVKAHEEIQQTIPLPSGDWSAGEFTVVDVEGTAFPSALIPSIVELQHRAALDVPHGNLSV
APAQWDEHRLAQQSERILKTGTKLFTVLFAEGSTVAAMSSIAIPPGSNPDIAEQGLTIVH
PDFRGRGLGTAVKLAGLSLLSRCHPEIQRVATSNAVDNHAMLAINRSIGATEIARTTLWE
KKL

>aaRXN03001 TRANSLATE of: rxn03001.seq check: 9853 from: 1 to: 453
MDWLTIPLFLVNEILAVPAFLIGIITAVGLGAMGRSVGQVIGGAIKATLGFLLIGAGATL
VTASLEPLGAMIMGATGMRGVVPTNEAIAGIAQAEYGAQVAWLMILGFAISLVLARFTNL
RYVLLNGHHVLLMCTMLTMVLATGRVDAWIF

>aaRXN03005 TRANSLATE of: rxn03005.seq check: 972 from: 1 to: 768
MSHKFSRRAFAVLTAAAISTSAFATTAPSAIAEPVLMSHCRRFQRRNFRKLPRLGLQGFL
AHLCHRTLDWWNRDATGGATVNEDGTYNFTLGTGSNYDVDTEKGQLNYEGTVAFASDAHG
FNITLSNPQITVEGDTATLSAELSDNAAPEETSTTRVDVAEFELTAPEVSETDADITYTW
TDASGTFLETLQPEELSRYAGQEADALSFSITVDKASENPSDDVATGSSSSFLSTILNFL
QQLASPLLKLFGSLSS

>aaRXN03009 TRANSLATE of: rxn03009.seq check: 8107 from: 1 to: 348
VANIASLYGLWEGSTSTPIEQLVPAKGSSFRLVRSFYRRIDGQAVQARLKEKILNTAENP
LPRLDIPGKERTAQYPENPDTFAQKAAQEILDEFRTPLIGEEAAAHVEKTKTIFWK

>aaRXN03010 TRANSLATE of: rxn03010.seq check: 697 from: 1 to: 237
VPTDNLFLIVAGIAWVLAGILSVLSIGKYMSAVNERKSTGFYTEVPWKKALFTATAVLLV
FAVVWSALDIALWVGKQSW

>aaRXN03011 TRANSLATE of: rxn03011.seq check: 6364 from: 1 to: 201
MAYETDSLNRRTLGPAIASAVVGIAVGAVAVVGVSMISGQDTVPTGNAVTADDALLGGPE
YGSREAD

>aaRXN03012 TRANSLATE of: rxn03012.seq check: 8240 from: 1 to: 570
TTINIIITNGAAPHPTNLNRAEIHDHLPLTASDSELTRPSQESVLYDHESETVLRTMVIP
ADLHVAMKHLAKKHNLTVTEISRILLQRYIDRNINHVEQNQAESDMVEVFASQPTNATAM
IPVPGTSFRQIFIKHSTGFWKNIDHDLVDLDASKTPRVRDRSVLPQPQLHRALLSDADMA
RLAAQLTDKH

>aaRXN03017 TRANSLATE of: rxn03017.seq check: 6478 from: 1 to: 1539
MLDSLKNRFTKAKGSHGVGEGAVSGDAAVKPLRKEERLASVIQETEPGAAVEVMRRNDAF
ALPGETGWVVMLLPTHDSQFGGLNAKEKNREDKGTIINLVVNDDIHSVVTPELLDSDVLG
VIPDADSFDRMDEFDLLRNKARWHYGVAAIEPDTGELVVFKVPAKNSASARGDIFSEVGD
VLSGAADLEDVVDFEVIATFLEVLNETSEVDIDDEDGDVPYGLEGVNAAGVITDDLIREK
LDVDSYPSSAEIIDNIVHVFTKLQGKHHVAPQPVLHSADVVDVDAQESHDTVVIESPDDV
ALAEQVDVPDFSDGFGIDDAEVTEPEDEEVVEATADADPFGDVAEDDPFGSDDEPDFGAS
DVVAAPAPVAGMSDEQIQALIRGVSESVQAKTGSELNALREELAQALAYNPVQDSQAALA
QVHAADARSFDADQVGDAVTKRYVNDDLGLYVDEANFNNALTRAPFQVAMPQFQETTPWL
GDQLRTLVAVFNGQLLDQHQRDYRRSARDVHCA

>aaRXN03018 TRANSLATE of: rxn03018.seq check: 6149 from: 1 to: 993
VTTEEVRAMYIALNDRSNLEIARDLGLDNKDSEFYEVYRAIERDRDVMAGDQQRVESERR
QQLQQEYEANREEYVMAKIAEQRVEYDRRHMPRHTASLEAVGRELTSLRDRTIEDYTARM
NTLRRARAGERANAAESRIIDELRPIVERQAELQRAAFDGFIVDLDKFIADHREDDLRLA
SVNEQKLAADNRVAQLTKEAEERIEGIRVETDKMIASQRKALERQEAEFAAELKRRDTIV
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VKQQDRSNNIILIAVLIVGLIAGMVAGAAFF

>aaRXN03024 TRANSLATE of: rxn03024.seq check: 8954 from: 1 to: 1416
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GIPDSGPHRYQRALRTCDGVQLRAGQLIEWGERRTQKAVDTRLVADLVLAGVRGQCSDIV
LVSGDADMIPGVQEAANAGLRVHLYGFGWDSMSSQLRHCCDTTTILDPREDFAECMQLQV
LEGPLPPVVRVKPINDAEPIEDLDFTPVPGVASPFEEVSAKDEKFSPRPSEPAEALSEQV
CEAQYEISKHEGQTADSGEITESFEAAEIKVTEFFGEPAAPVAESGVEAPTPEAPTVPEA
AKPTPAKPKTPKAEPQKQESPKPGTPKPKAPSPADIPPKAPADTEEHSEVEAEIEDSRPK
IPSPSMMAPRRKLRSRYVPLPNEVWATAGFQTPYDVGQQYASWWFENAATSTQRDQAHLL
SGGGLPPEIDRPLLQFACETLHEYTLTEAQRVALRDGFHSGIRGVLLNQRDS

>aaRXN03025 TRANSLATE of: rxn03025.seq check: 3655 from: 1 to: 873
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KLNRLVTDRDKLQEQARQAIQLADKSANEGDSVKAQEFNNTAEVFASQLVAVEQQLEQTT
ALHQQAEVAAKDAVAKSKESEMRLKEQMSQIDALRAQADQAKMQESVTKSMDSLNQFGTQ
DSSVPTLDAVREKIERRYADALGAQELTQNTVSDRMAEIAQSGTDMRASARLAELRAEAL
GTSATPKGQLEAGVEDAEELIDETSTPSATPETASPEADAPEASADESEKK

>aaRXN03027 TRANSLATE of: rxn03027.seq check: 7054 from: 1 to: 135
MENVYEFLGNLDVLSGSGLIGYVFDFLGASSKWAGAVADLIGLLG

>aaRXN03029 TRANSLATE of: rxn03029.seq check: 3295 from: 1 to: 513
MFGVGYYTTAHRLSTLQRPNLRGIPLTFVSVDRAGNMSKRQSATGFHFTHYGGTCPLWNV
FETFTNPGQVLRQFAQMPDGRNYLWISRTVRHHEARFGEVDKMFAIGLGCEARHADRTVY

SRGFNLQDLSTATPIGSGCRVCTRENCAQRAFPSVHGRINIDAHESTIAPY

>aaRXN03031 TRANSLATE of: rxn03031.seq check: 9392 from: 1 to: 789
NNGLNAMAAMTNLPHLRAIQERYYFLSIRYLASIMIAVAKADPTLWEELDLRITDALTPV
TAGEVMIQSSTLSKRIAAWIKELDPEPTPEPIPKEDYVHVHTTDEATYVRIKISGPNRLI
LNDIITQLKDTDTEDSLPEALMAFLMEKIQLKITKYLFTPHKHPEQVWSPDYGDIGPEAY
ANATLVCAKDLDEVAGATEKSYTPSEKMKALIRARDGHCRFPGCCVPASKCQVDHIIPWA
EGGPTAAWNLQLLCQRHHNMKTD

>aaRXN03032 TRANSLATE of: rxn03032.seq check: 9767 from: 1 to: 285
MTDGDLDADISPRQIGLMTTRTVVEIVRLRHMIAQQLERATIMENEYLKEIAALKKELAH
YKQKDHQNQMVIDILGKAIGTRPNPGEGLDEEDAT

>aaRXN03034 TRANSLATE of: rxn03034.seq check: 6067 from: 1 to: 660
FPPDRISANGRRYYEPQTRLEFMRIYTTLPHGYRQPFLKANNIGHCTVRTWLAAISTFSR
LPHAFDDAHRFGIERTTPVDDVTTLTADDKRDLVIGYLAQPHGQGQQFLTFYQLRKHTIM
AWCAAMTDGDLDADISPRQIGLMTTRTVVEIVRLRHMIAQQLERATIMENEYLKEIAALK
KELAHYKQKDHQNQMVIDILGKAIGTRPNPGEGLDEEDAT

>aaRXN03037 TRANSLATE of: rxn03037.seq check: 5439 from: 1 to: 186
MSVDDLYAVALDTHTGKPIPCVLCENAPQIVIYDGCCSLAYTQALGDLAEAEYYGADLAA
AA

>aaRXN03041 TRANSLATE of: rxn03041.seq check: 9452 from: 1 to: 498
MEGPEAFTVAAIAAAAGVSPRTFHNYFPSREDALVQFVVIRVQELTDQLYEFPTSVPPRD
AIEQLVINQLRDGDDAMDSFSAMFRIGEILENLDPIKCVIDKERLIAPLLEFMVERDKDL
DKFDXGNSDPFACSGNCNLAAYVLPSFRAPGHRRWSRIDPSGMRLD

>aaRXN03045 TRANSLATE of: rxn03045.seq check: 9805 from: 1 to: 996
MSITTHVQALTTALNAIDNHLASMLDHGVTPDQYKAIEPDLIALEHTINHHATIAAQTTA
LAERTNAAQSIGSTHLIDYLTTTFGLSKARAHHRINLAHSLYPIPKPNSGSGNGGNGGNP
DGGPDGGDSGDDDSGDDDPDPEPDKPEDGKPDSDKPRRPRISAEKHAIITDELARLNPNT
TPSAEELRNQALSQAIWRTPEDLRTWLRHQVTTANKNNPNPITAMKRRYLSVGKPDADNM
VRISGLVPAATAALITANTAPLTKRGNLVDLPAAEDMRTRGQRHADALHHIMEIYNHGIV
TPARGGTASIIISMTTDDLDEINHANSSGESL

>aaRXN03046 TRANSLATE of: rxn03046.seq check: 2540 from: 1 to: 336
ASIANSTLNIPVGLGGSNLLLKAQTATPSEPANAQDKLYRFCIANGKRAFSDAQRFLLNA
DELAELSDYERLAYAITLLDQPGKEAEGRELFPFGASPPGLPRCRFLGIPDC

>aaRXN03047 TRANSLATE of: rxn03047.seq check: 8954 from: 1 to: 1416
MLERTQVFVDTSYLLASFYNSWETGARAQLEIDLPEVVGVLGRMIEQQLKQPVQRQMWYD
GIPDSGPHRYQRALRTCDGVQLRAGQLIEWGERRTQKAVDTRLVADLVLAGVRGQCSDIV
LVSGDADMIPGVQEAANAGLRVHLYGFGWDSMSSQLRHCCDTTTILDPREDFAECMQLQV
LEGPLPPVVRVKPINDAEPIEDLDFTPVPGVASPFEEVSAKDEKFSPRPSEPAEALSEQV
CEAQYEISKHEGQTADSGEITESFEAAEIKVTEFFGEPAAPVAESGVEAPTPEAPTVPEA
AKPTPAKPKTPKAEPQKQESPKPGTPKPKAPSPADIPPKAPADTEEHSEVEAEIEDSRPK
IPSPSMMAPRRKLRSRYVPLPNEVWATAGFQTPYDVGQQYASWWFENAATSTQRDQAHLL
SGGGLPPEIDRPLLQFACETLHEYTLTEAQRVALRDGFHSGIRGVLLNQRDS

>aaRXN03048 TRANSLATE of: rxn03048.seq check: 3655 from: 1 to: 873
MANPLSKGWKYLMASFDNKIDENADPKIQIQQATEAAQKQHQQIMQHASQIIGQQKQLEM
KLNRLVTDRDKLQEQARQAIQLADKSANEGDSVKAQEFNNTAEVFASQLVAVEQQLEQTT
ALHQQAEVAAKDAVAKSKESEMRLKEQMSQIDALRAQADQAKMQESVTKSMDSLNQFGTQ
DSSVPTLDAVREKIERRYADALGAQELTQNTVSDRMAEIAQSGTDMRASARLAELRAEAL
GTSATPKGQLEAGVEDAEELIDETSTPSATPETASPEADAPEASADESEKK

>aaRXN03050 TRANSLATE of: rxn03050.seq check: 8926 from: 1 to: 966
MSITTHVQALTTALNAIDNHLASMLDHGVTPDQYKAIEPDLIALEHTINHHATIAAQTTA
LAERTNAAHTIGSTHLIDYLTTTFGLSKARAHHRINLAHSLYPIPKPNPGSGNGGNGGNP
DGGPDGGDSGDDDSGDDDPDPEPDKPEDGKPDGDKPRGPRISAEKHAIITDELARLNPNT

TPSAEELRTQALSQAIWRTPEDLRTWLRHHVTTANKNNPNPITAMKRRYLAVGKPDADNM
VRISGLVPAATAALITANTAPLTKRGNLVDLPAAEDMRTRGQRHADALHHIMEIYNHGIV
TPARGGTASIIISMTTDDLDEI

>aaRXN03053 TRANSLATE of: rxn03053.seq check: 9689 from: 1 to: 1524
FHFTSTEFAGSYSLVTNGLNDVAGEYVGVMRGDVNNSAVLFDVDRWSGHVVCADSSINTS
PLLKRPRVVDMWGSKISQAALLNNRRVVHLVLNGAKLDEMGPKLESMTAHVDMTSGDLNM
FELFGKQEDELSLYSTHMDKIVFMTEQALGDKTSELALLRGKLKEIITAFYVDMKMWALN
AGENRDKLRLVGVPHEQIPLLSVFVSYLDQEYERQKYEGTKDPEMFRAISVLRLTYKDLL
DTHGDLFNQHTADGIDSVNSARRVIYDFSGVLRRGAGVAMAQLVNVIGFAVETLGQGDVV
IIHGADGIVDVDVQDYLANQFAYMAERGGRVAYLYSSMDAMLGTVGFNQFQRAAYTILGP
MNVDSVDTYQSLINSQIPMDLARLVTTQNSGASYLRRGSTNVVFETNLALGVNPYMEQRR
KIEAQRGQRRSKRDKHYGGGTTMVGTADLDVVAIQAKAEHREERFDEKSARKMKELDDVE
AKELALKTGPKNLDDALAQVEKKRLAKR

>aaRXN03055 TRANSLATE of: rxn03055.seq check: 6322 from: 1 to: 429
MYSDKLILLFLSEQDSSYECCVGLLDGSDGRDYIEKLLKGRKLKNHFLEWEDINKADVAR
EEIYKGQLVHLVFVTALSTPGEISFVFPGQSLMSATLEEDFAALVLEEERTSFRPELSHL
WSLPVGWVAPGLEGFVERNSEAA

>aaRXN03059 TRANSLATE of: rxn03059.seq check: 9601 from: 1 to: 480
MNSGSTMRRISLRNIGAHKVRLFLTVLAVVLGTSFVSGAMMFTNALSSTFDEAIASSFDG
VDVVVSPNGASEVQGVPVETVESLREDSRINHLNINGSQTVVLADADSKAIQTTGGSSLS
IYYSADDAVAQAPELAEGEAPTGTEEVLASKAGAEANGLE

>aaRXN03062 TRANSLATE of: rxn03062.seq check: 8000 from: 1 to: 522
METPTQDMDVRWLYTQSQLKLREILPTNKTFDVIQISELVDPTDFIRPNSVVLSVGIAFA
ETPDGLRDWAHRLADAGVIAIGFGSGLTFPQVPQALIDASLHLGLGLFEVPREIPFISIT
SSVRDEQTRRAGRLQQELLLEQERLNSIAISGGIEALCRAAADYLGGAVTIVDS

>aaRXN03066 TRANSLATE of: rxn03066.seq check: 1968 from: 1 to: 663
MTSDKDTEQLEAAGTEILMPRRRPAQQRSRERFNRILTAARSVLVDLGFESFTFDEVAKR
AEVPIGTLYQFFANKYVLICELDRVDTAEAVAELKKFSDQVPALQWPDILDEFIEHLARL
WRDDPSRRAVWHAIQSTPATRATAAATEKEMLEIIAEVMRPLARGAGYEERMSLAGLLVH
TVSSLLNYAVRDVNSSEEDFDSIVEEIKRMLISYLFSVATG

>aaRXN03067 TRANSLATE of: rxn03067.seq check: 3872 from: 1 to: 171
VMTAWGAFGEKKNYGKIVQGVIRSTFLINADGTVGMAKYNVRATGHVERIVREITAA

>aaRXN03068 TRANSLATE of: rxn03068.seq check: 9072 from: 1 to: 120
TKEACDFRDSLSNLNDLDIAVVGISPDPVDKLVSSVRTMS

>aaRXN03073 TRANSLATE of: rxn03073.seq check: 8068 from: 1 to: 630
MDSVNVLLIGIIVAIAALLPRKGKYGPIATLLVAGDWLGVFLLSILVMLVFDGLEDLVQG
FLDSIWFGVILLVTGIVSFVATLVSKTDSTRKLDGFLAPVKTPSWKTVGAGLILGIVQSA
TSVPFYAGLGYLSVGNFSPEIRYGGLVVYATLALSLPIIVAILVGMVRKYPESPVGRLFE
LIGQNKERVTKWSGYLVSLVLCIMGITSIL

>aaRXN03085 TRANSLATE of: rxn03085.seq check: 6690 from: 1 to: 351
MSIHIAKVHDVLKGEKTYGTTILVDRLWPRGVKKDDLEPDLWLKSVAPTTELRKWFGHDP
AKFSEFSTRYTEELNASNDKDLETLVDATSRHPVTLLYGAADRDHNHAIVLAKWLKK

>aaRXN03089 TRANSLATE of: rxn03089.seq check: 2217 from: 1 to: 1158
HSLYPIPKPNSGSGNGGNGGNPDGGPDGGDSGDDDSGDDDPDPEPDKPEDGKPDSDKPRR
PRISAEKHAIITDELARLNPNTTPSAEELRTQALSQAIWRTPEDLRTWLRHQVTTANKNN
PNPITAMKRRYLSVGKPDADNMVRISGLVPAATAALITANTAPLTKRGNLVDLPAAEDMR
TRGQRHADALHHIMEIYNHGIVTPARGGTASIIISMTTDDLDEINHGDHGDGSLLNNLYP
TNTGYSLNLAEIMNLIAAKYDFAVLLDGETGQPLNVNRMQRSANLTQRIALFASELVCSA
PNCDRPQLECEVHHLDPWMRGGLTNLVNLTHQCFNHHPRNDDSRSGVNGKGFMDRDPVTG
RVGHYSASGEGPVFNRSAAADRSGGA

>aaRXN03098 TRANSLATE of: rxn03098.seq check: 3946 from: 1 to: 624
MPTTDVFNRVRLALEPLADPARATGMASYMRDQFSFLGIPSTPRKEACKPVLSALKELDT
DFVSDCFGAAEREYQYVACDHINRVGITDLGFAKALVQTKSWWDTVDSLAKPIGAKHDDD
LMKTWALDEDFWVRRIAIIHQLGRKKNTDAALLAWIIEQNLGSSEFFINKAIGWALRDFA
RHDPSWVRAFVDATDLSPLSRREALKNI

>aaRXN03099 TRANSLATE of: rxn03099.seq check: 8629 from: 1 to: 675
VVDAVHDVLQIALARRGEYNLGNALGLEVLGQAFAVTPAAGVVYHDGVIDAVFGVINGGW
VIGVDDLDWGAVGPDDVVVIIGGDGAIESTVDRITTQQGCALDQVFFTIFADHDGAQTST
VIQCLAGNQDAGQQATDAAETVQHDISWVDVGFRTNDRRESVLQEGTQVGAFGFFEAVGQ
LSQVDRCGTKVHIYQFAQNIQGAFQWKFLGYDVAGVAVRLDDIDV

>aaRXN03104 TRANSLATE of: rxn03104.seq check: 6257 from: 1 to: 177
LELNAWEDILDLLSWSGSGNGAQDQTVIQVLEGFNAIVILANKQSLVGKQVWATEVDGL

>aaRXN03106 TRANSLATE of: rxn03106.seq check: 1318 from: 1 to: 192
MSASFDDPNLISLAGLVPTMHLADAASLSTLAQDRLSITGDKGANAGAKIASLVAGMVAG
ADSI

>aaRXN03107 TRANSLATE of: rxn03107.seq check: 669 from: 1 to: 201
MSDFSNKAEDLTGKAKEGFGEATDNESLADEGRADQAKADIKDAVENAGEKVKDAANKVL
GAFKKDD

>aaRXN03113 TRANSLATE of: rxn03113.seq check: 5526 from: 1 to: 1599
VLDFLAANPLIALVVILAVGLAIGQIRVFGLSLGAAAVLFVALVVSTANTDIVIPMIVYQ
LGLAMFVYVIGLSAGPAFFSEFAKKGWKLTIFMLLLLATLIGLAWVLIKSLGLDAAIGTG
MFTGALTSTPGMAAVVELIEGIDPSLASEPVIGYSLAYPGAVLGSIVVAAVGAKLLKVNH
REDARKEGMITAPLVWKGVQLKPGITGRVGDLPRLAGESIIATRIVDDPHTHRLADPDLP
ITEGMELLINGTEEAVDRAIKALGEERETKIEDTELIYTRLTVSSPEVAGRTVAELDTVA
HGFMIARIRQGDSEVVPKPDTVINYSDRIRVVVAPGRVAEVRRFLGDSEKSLADVNLLPL
AIGLSLGLLLGAIPIPLPGGTTMSLGFGGGPIIAGLILGALKHTGPLTWQMPFHANRTIS
TLGLALFLAGVGTSAGAGFRAALTDSSSLIYMAGGLVITLASALLCAVIGMWVLRLRWDE
AMGVAAGTTTNPAIISYLNGQTGTDLANRGYATVYPTAMIGKILGAQILFLLL

>aaRXN03115 TRANSLATE of: rxn03115.seq check: 582 from: 1 to: 399
VGKQEKLRIPLDVPGVESEEVGVELLAEGYYLVATLPAVAQDCALGDVVRAHHVDEVLEF
QEVAVAGGNKTLRVLVDAIAADHVRAQLETLGLHVEAPMSEMLTVNIAPDSPSHGLEILL
DDLHAQGVIFRAL

>aaRXN03122 TRANSLATE of: rxn03122.seq check: 3973 from: 1 to: 147
MTAHHEGAVDMARDEVTDGQNPQAIALAEQVIEDQEAEIAEMEHMLNEL

>aaRXN03134 TRANSLATE of: rxn03134.seq check: 1542 from: 1 to: 351
VAWRVGPGSHEHDIVGSSGFGSEADGGFFPASEGLALDNGAGDAAVDVGVSDIDVVKPGA
DFVGVEGLESAGESEVVAVLEFDGFIEVGGFHQAEDWSEYFCEVEEGSWFDAFFDAG

>aaRXN03135 TRANSLATE of: rxn03135.seq check: 3240 from: 1 to: 729
LVLDERWVGVGLVDKWDEGGVEKRLFAAVLCVVGAGRGHVDERGEVRYGGAEAALLSLEG
RVVGVEVEDGGHEVFARGVFLEAAHEVRNGHVEFLWAHGWYVKQQLTDVNADGARLIGRH
ALQHFELHTVRYPTLHREQMCECYVEKVVAGNAQAQALHVFFAHRPIEDALVIGIGGLFG
RFCGNWPAGDLRVDVLHRQISTLDQANLNARPACVDALAAELRQVLDCTEGIGKVRLQHN
SGF

>aaRXN03138 TRANSLATE of: rxn03138.seq check: 608 from: 1 to: 471
LDIVPKDVAESFAVGEVVFLRVLGDGVVDDVPVHSIDGGSDFGGSVWGEGHSERAVVLGT
ARTGGSCVVKQISYFFYLASYGRRAWQNLVGAGGGEVFGEDCVGAGEVVGVDAGEFVANG
DQSGEVEVVQLLLQGFEFGQVGERGKRDGYAGDLRFC

>aaRXN03140 TRANSLATE of: rxn03140.seq check: 4447 from: 1 to: 249
VKGIHQEISRIERSHDYLWSVREDLHARFDNQLKAHFVDSVLDSIAEGYEGRINRFRKIF
IEMKAVEELRTIAATRPSHLLAA

>aaRXN03141 TRANSLATE of: rxn03141.seq check: 2295 from: 1 to: 330
VVEATGVAGGNHVATVWHAGVLGVEGCFVDEVDFDFVANEVIRHGADVVFDALVIGRVGN
HEALALVGLLSGKVAGFAAAGLFQGVFGWEGVLDCLLNARDASQSIGVAL

>aaRXN03146 TRANSLATE of: rxn03146.seq check: 6973 from: 1 to: 471
MNPRILMLLRIIFGAAFLALLVLQVLLAIKIVRDGLNSGELSPIPLTILASFVIIGFGLV
QFIIVCLFALLRLVEDDEIFDAHSLAWVDRIAITIAAGAVLLLPMAYIVAEVDDAPGAIV
FGLILAMLITGVSLLVKIMRALLARAIGFSTELESVI

>aaRXN03147 TRANSLATE of: rxn03147.seq check: 6179 from: 1 to: 252
LEILFKSGLGFVVIIGAVGEYFGADFCGAGAGGGGLLKLAEYIAGWIAGESADDVFGFVV
CVLRFETFLGVGVCQRGIVWEEHG

>aaRXN03149 TRANSLATE of: rxn03149.seq check: 777 from: 1 to: 267
VVIGELLPKSYSIVNTEKVVLFVVKPLHYFYKVMFPFIWVLNHSAAGLGKLLGVRLVSEG
EETLSQEELTLVALNSYEKGELPKKNIII

>aaRXN03152 TRANSLATE of: rxn03152.seq check: 1285 from: 1 to: 273
MKLFSRTPLVALGTAAAMAATSISVPAQAEEVAPAQVVYVADTVEEETGSSNGSSDIDSD
TILDYVVVITGIVGVLSAGLTFATAFQRSLQ

>aaRXN03153 TRANSLATE of: rxn03153.seq check: 7794 from: 1 to: 564
MRRIWLLVCGIALTVAGCTSGSTTPTTVTVTATPTSEEAASTEPTNDILASQFHPCEVLT
QEQFEEVGLGVLIVEDAYLGSTGLGCSFGKADREDFSGTWLISTDQANRQFVENQDLETL
DWGSNDNPDLYVHQMSETGRQCEAAVDYDWGRLTVDYLELGEGWEPEILCSDAVEILENL
IKELRGIP

>aaRXN03154 TRANSLATE of: rxn03154.seq check: 5495 from: 1 to: 912
MLKTTLITDTLGHVTSTEPTTTAHVPLPDGSSTPVQIWASDNKDSQLVMLWPGFGMGGYY
YRPLAAAALNKAGFHVAIGELRGQGQSSAKASRKSQWGYHDLASVDFPLQIAAAKKALDLE
EGHPMRFLSHSMGGQISCLFAARPEAEKYNLRAIFGVGAGSPFRPTFSPKMGKRLGLGAV
LLGGIGGHIVGFWPGKVLGKDLVGYGRQSGTHMREWRRFHKHNSLDDLTAQDINYVEVMK
KVSIPITFSRCPDDEDCPQASIDGLASFVPAAQIKMIEIPEALGHNRWAREPESTVKLFL
EQAL

>aaRXN03156 TRANSLATE of: rxn03156.seq check: 5548 from: 1 to: 180
MARTTPPPADVLDIIISTVKQTIGIDLAELIQGRALGQAQGEAQGKASAAALEQAPHNEQ

>aaRXN03162 TRANSLATE of: rxn03162.seq check: 7855 from: 1 to: 396
VHDEHWVWSDEKDADFAFDDAWHETHINEHAVVADDVLVTEIHELAELADFSVVVDCFGA
LDFSVQWQCGAWLDGCSQFLVYQLDAPNAGAGGATVLLEHALTEGQGGWENLVEGLHVVV
RLGVGWHQVGLG

>aaRXN03167 TRANSLATE of: rxn03167.seq check: 749 from: 1 to: 630
MNTNLPNLYTAFDLDRSESSEALGVSLSARDLRLEQMGIAQDDPRRAQTVQAFAVLADPA
KRATYDAQLEAGVPLTWAQIQHLGNFGTLPSTPTAQPFAAPQPEPSPEPQQQWNSGQNYA
YGNPTMDYQTQQSYNPMQDQTQASMYAQPFANTPAPMYNSNQVFNRPTAGTRLWMAILDS
IFAGIAGGIVSGIFGFGSEFLTSVIMILVL

>aaRXN03170 TRANSLATE of: rxn03170.seq check: 4430 from: 1 to: 249
LPHAKELAHELCLLPTPAVPALPTDSGAQFDIHQALSASLATYARNLTLLSHTAENLGNR
ALTGLAEIEDTDDQLAHALERLT

>aaRXN03172 TRANSLATE of: rxn03172.seq check: 3870 from: 1 to: 1026
PEWKKFNSGDAARVVPDANAELDIIGAPALLADRPSYANVKTLSRIFAVMRSLGHVTAAS
PVTVFFSSHSVLSNVDRGSEHYSGPNGLGEWTSVGRAVATNWNGVVDALDEAITVKEVNS
LFTEDAATRIQEAQAAVQAAREAEEQIAKEEAEKVDPYDNSPWAAAGIDPIKVSIDGRTI
YTLRTYLGGQPVFLGKFGEISTFNSQKSLLRWLVEHDDHDLARASTWSDLMLGINAGETE
LLVHSDNVYSFNGLVKDINTSVDAVDTQQMARAYELMADTADWADDDSMNSYFLANPRMQ
DYISYMLGGSDTSGYVPHAPFNDHSESWRELEEMLIKRFSKF

>aaRXN03173 TRANSLATE of: rxn03173.seq check: 9151 from: 1 to: 1098
LNRDTHHLWVVLTTDSDDFDADSFTTEVIRITGYSRHEVNNGLNAMAAMTNLPHLRAIQE
RYYFLSIRYLASIMIAVAKADPTLWEELDLRITDALTPVTAGEVMIQSSTLSKRIAAWIK
ELDPEPTPEPTPKEDYVHVHTTDEATYVRIKISGPNRLILNDIITQLKDTDTEDSLPEAL
MAFLTEKIQLKITKYLFTPHKHPEQVWSPDYGDIDPEAYANATLVCAKDLDELAGATEKS
YTPSEKMKALIRARDGHCRFPGCCVPASKCQVDHIIPWAEGGPTAAWNLQLLCQRHHNMK
TDGRFTADANGLAETRWTGPMDVPAVTRPTGPLVKAMPRGIWGQVLRDRIQARFERTRDR
ALNKED

>aaRXN03174 TRANSLATE of: rxn03174.seq check: 9763 from: 1 to: 456
MLLTILWAIGITAEGMTGALAAGRQKMDLFGVSVIACVTAIGGGSIRDMLLGHYPLVWVE
KPLYLLLIIGAAILTVSISFLMEHFRVLFLVLDAVGLSAFAVIGTQIALEMGYGFIIAVV
ASVLTGVFGGVMRDLLCDRIPLVFQKELYASI

>aaRXN03177 TRANSLATE of: rxn03177.seq check: 4510 from: 1 to: 666
VKKKLMLPLIVAALGLSACSSEPAAAPLEAEPLHNLLIDGSESGLDNATEGNDTSLSGQP
INLTVVNGALDIDGSCGKALQAVEDVNLDSVASASRALASGDKQVGIAMYSTAEDNDISP
MDLYADIANACEDPVVDSSDTTYTFGKLDDAPDGAVGFTLDIEVTPDNQGSTVMMIQELG
NHHIIVAGLETTPEETATVFEAQRTKLEEGLQLKQNWQLGWV

>aaRXN03182 TRANSLATE of: rxn03182.seq check: 2985 from: 1 to: 273
MTLQLFTDIVSLVFILSGAFLSFSASIGLIRFKDTMSRVHAMTKPQTTGLILTVVGAIIR
ILGHEHFDQSQRSDLGVLVLLVLFALLTSPV

>aaRXN03184 TRANSLATE of: rxn03184.seq check: 3926 from: 1 to: 498
MVGAFGGGVLGGYIPGTILMIAFALMMIATSTAMLRGRKQKKGASKSSLWRVLVDGLVVG
AVTGLVGAGGGFLVVPALALLGGLSMPVAVGTSLVVITMKSFAGLAGYLTSVQLDWGLVL
MVTAAAIVGSLAGSRLAGRVPETLLRKGFGVFVLVMGVFVLGLELL

>aaRXN03185 TRANSLATE of: rxn03185.seq check: 4886 from: 1 to: 189
MNDLAAEGENDPYRMVQQLRRKLSRFVEQKWKRQPVIMPTVIPMTAETTHIGDDEVRASR
ESL